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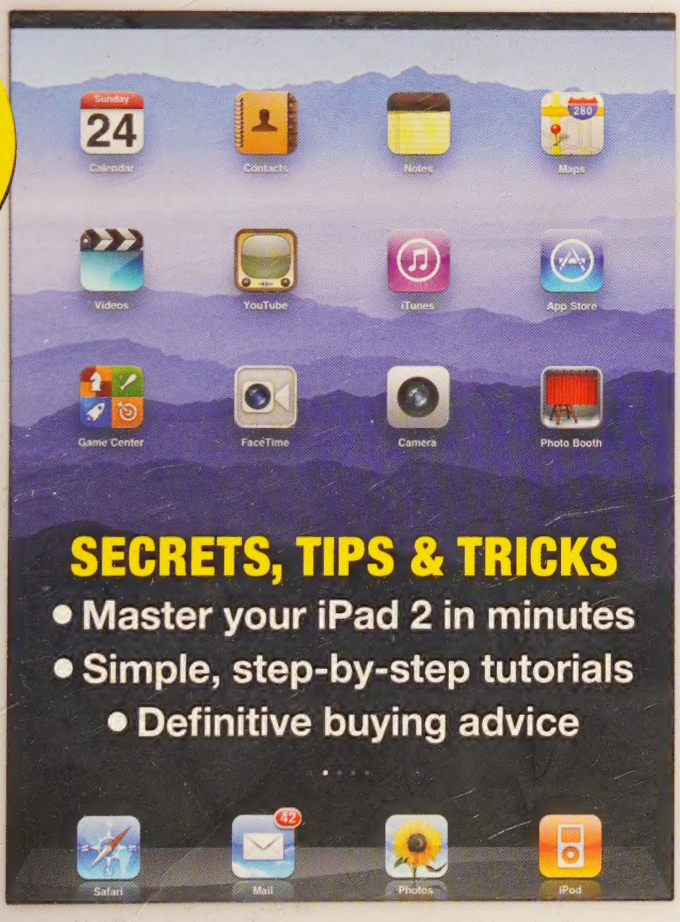

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801 N. Main Street
Wauconda, IL 60084

The Essential iPad 2 Handbook

EDITOR
Andy Penfold

ART DIRECTOR
Philip Jones

PRODUCTION EDITOR
Brad Southern

CONTRIBUTORS
Rob Buckley
Howard Calvert
Rob Clymo
Fred Dutton
Jonny Evans
Penny Glen
Ben Harvell
Cliff Joseph

PUBLISHING DIRECTOR
Ian White

MANAGING DIRECTOR
Azad Kanani

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Australia: Gordon & Gotch +61 2 9972 8800
Eire and the rest of the World: Seymour International +44 20 7429 4000

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Welcome...

to The Essential iPad 2 Handbook

Buying an iPad 2 is a big investment, but we're confident you won't regret it. And, once you've gone through the joyful experience of taking the shiny tablet out of Apple's luxurious packaging, you're left with a blank screen and a whole lot of questions. How do I sync it with my computer? How do I set up email? How do I get movies on it? What apps and games should I download?

This book will answer all these questions and more – you'll be an expert before you can say 'Multi-Touch'. We'll guide you through the start-up process, and recommend the very best apps and games that the App Store has to offer. We also have in-depth guides to some incredible apps, including Apple's own GarageBand and iMovie. Along the way you'll find tips, tricks and recommendations to help you get the best from your new device.

The iPad 2 has so many intuitive and useful features that the more you play around with it, the more you'll discover. Time to get started with what is likely to be your favourite purchase of the year. Enjoy.

Andy Penfold
Editor

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Welcome to the... iPad 2

Apple has consumers hooked on its stunning mobile operating system. Enter the iPad 2 – the most desirable gadget on the planet...

Emerging just a year after the original model, the iPad 2 is nonetheless a massive leap forward. Apple's iPad product line may only be in its infancy, but with sales through the roof and the technology industry scrabbling to catch up, it's clear that Apple's iPad has struck upon a unique connection with users – and this connection is the reason that touchscreen, mobile devices will shape computers for many years to come.

So, if you're holding a new iPad 2 in your hands right now (or you're thinking of splashing out on one), you're onto a very good thing. Apps, touch, mobile communication and productivity is the new order when it comes to gadgets, and the iPad 2 does it best by a country mile.

With its super-fast gaming, dual cameras with online video chat capability, and remarkably slim design, the iPad 2 has plenty of headline features to get excited about. And, with its new A5 chip setting the pace, there's a whole lot more power under the hood to support apps that are more sophisticated than ever.

When Apple launched the first-generation iPad in January 2010, there was a feeling that it could go either way. It was an undeniably amazing gadget, and consumers were excited. But would anyone actually buy it, given that the world was recovering from financial apocalypse? Would the fact that

Aided by the ingenious app development community, the iPad has a place in just about every task

it was extremely cool and novel actually translate into something that people used in their day-to-day lives? The iPad's first year on sale answered those questions – iPad users have found the iPad fits perfectly in almost all areas of modern life, from the presenting of ideas to tweeting what you had for dinner. Aided by the ingenious app development community, the iPad has a place in just about every task.

A little history

Apple rarely calls the iPad a 'tablet' – and for good reason. The idea of a tablet computer has been around for decades, and, until the iPad, was synonymous with dud products. Companies that had launched tablet computers before Apple had seen minimal, niche success – in the early 90s, big names such as IBM, Samsung, Fujitsu and Toshiba were behind a 'pen' technology that allowed users to 'write' on a touchscreen. Microsoft was convinced it would work, and allowed 'pen' systems to work with Windows.

But the devices didn't sell. By the mid 2000s, Dell and HP had produced what were now referred to as 'tablet PCs', but they remained in a business niche.

All this time, a rumour persisted that Apple was creating a tablet. By the time the iPad actually launched, this rumour had been circulating for nearly 20 years. But by the late 2000s, Apple had launched incredibly successful touchscreen products already – the iPhone launched in 2007, and the iPod touch was a miniature version of the touchscreen computer the Apple fans craved. The technology behind the iPhone and iPod meant that the Apple tablet rumour was increasingly plausible, and on January 27, 2010, Apple's legendary CEO Steve Jobs finally unveiled it – the iPad.

NEED TO KNOW
What is iOS?
iOS is the term Apple coined to describe the operating system for its mobile devices. The current version that ships with the iPad 2 is iOS 4.3. iTunes will notify you if there's a new version when you connect your iPad 2 to your computer.

A lot has changed

Fast-forward to the release of the iPad 2, its hyperbole-laced launch event and fan hysteria, and the 'tablet' market looks very different. Manufacturers such as BlackBerry, Samsung, Toshiba, Motorola and HP (to name just a few) are bidding for a slice of the iPad 2's pie, and consumers have a massive list of devices to choose from. Android, the mobile operating system from Google, has a purpose-built version for tablet devices to rival Apple's 'iOS', known as 'Honeycomb'.

The tension between Android's open platform approach and Apple's closed App Store is a modern day equivalent of the old 'Windows versus Mac' debate. Apple insists that all apps for iPad are approved by the company before they are put on sale on the App Store, and the only way you can get apps for an iPad (or iPhone or iPod touch) without hacking the device is »»

through Apple's closed store. The result is a seamless, largely malware-free experience, but Apple takes a 30 per cent cut of App Store revenue, leaving 70 per cent for the developer. On the other hand, Google's Android OS is a more 'open' market – apps are not policed before being put on sale.

So Apple has competition on the software front, but it also has competition from rival devices. Motorola's Xoom has a higher-resolution screen, BlackBerry's PlayBook supports true multitasking, while nearly all rivals have 1GB of RAM as opposed to the iPad 2's 512MB.

Touch the future

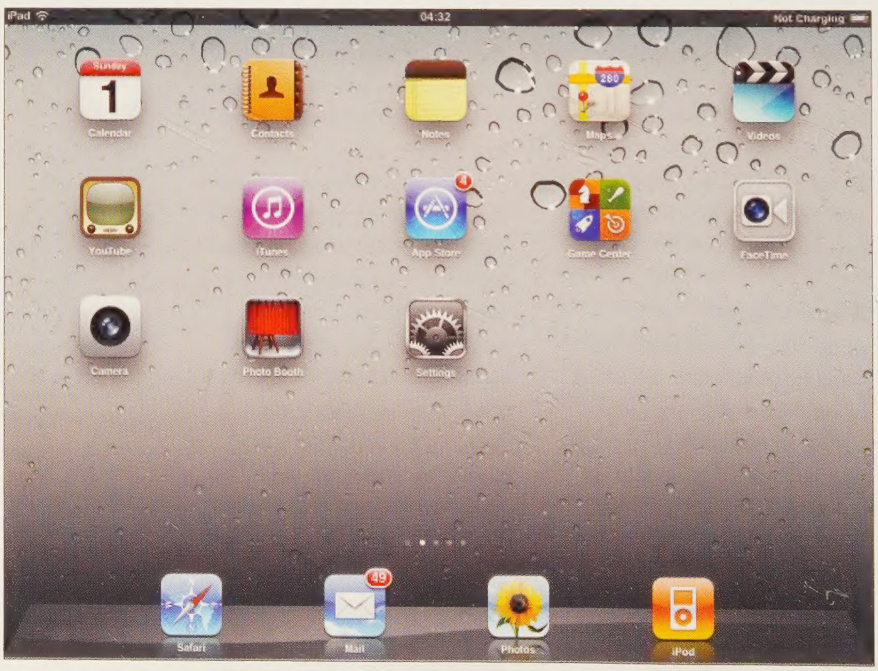
Apple's iPad 2 still holds the advantage though. The operating system may be closed, but it makes for a user experience that epitomises Apple's 'it just works' slogan. The word 'ecosystem' might sound like horrible marketing speak, but it is Apple's not-so-secret weapon in the success of the iPad. Not only has it created the iPad 2, with all the wow-factor of a truly innovative device, but it also has the iTunes software that makes it all tick, the music store built in, and the all-important App Store.

Since Apple launched the App Store in 2008, it has grown to offer more than 350,000 apps, and the store has served an astonishing 10 billion app downloads. It really has changed the way software will be distributed as time goes on, and other tablet manufacturers are nowhere near ready to compete.

The huge market for accessories that surrounds the iPad is another aspect of the ecosystem that makes the iPad the top dog when it comes to touchscreen computers. Thanks to the incredible success of the iPod, there is a massive family of technology companies that has embraced Apple's gadgets and built a business around them, from 2001's first-generation, 5GB model right

Witnessing the pomp and ceremony

Apple is almost as good at putting on a show as it is at making gadgets. The iPad 2 launch, which took place on March 2, 2011, was one such example. Despite being on long-term sick leave, Apple's talisman and CEO Steve Jobs took to the stage (to rapturous applause from the audience of journalists and technology industry figures), and wasted little time in unveiling the iPad 2. Never one to shy away from a soundbite, Jobs called the iPad 2 the "third post-PC blockbuster" product. Judging by early sales figures, though, it's not an overstatement.



The iPad 2's homescreen has a few clues about what new software and hardware the gadget packs inside

up to the whizz bang iPod touch of today, there are hundreds of accessories available.

From the bog standard protective case to car gadgets, music add-ons and many more ingenious inventions, the iPod paved the way for companies to get involved in the Apple gadget industry. And the iPad continues this tradition – seasoned Apple accessory-makers have embraced the iPad (they're not stupid – they're following all those consumers).

And from a business point of view, accessory-makers are wise to stick to that market, rather than spread their development dollars around the massive sample of untested devices. The result? The iPad is the easiest tablet to accessorise. Whatever you want to do with your iPad 2, you're sure to find an accessory that does just the job you need.

Ready to start

So, the tablet wars are only just beginning, but Apple has streaked ahead and could leave the others to fight over its scraps. While official sales figures aren't available yet, one tech analyst estimated that Apple shifted half a million iPad 2s in its first weekend on sale in the US.

And it's easy to see why such unprecedented consumer enthusiasm for the iPad 2 exists. Its sleek, wafer-thin design, intuitive interface, and features that are both fun and productive make the iPad 2 the hottest gadget since… the iPad 1.

This book will take you through every aspect of using the iPad 2, bringing you up to speed on how to set it up, how to use its many new features, and how to get the very best from it. A guide to the iPad 2's performance and new features follows, so turn the page to get started with your new gadget. »»

Tablet wars are just starting, but Apple has streaked ahead and could leave the others fighting for scraps

NEED TO KNOW
iTunes 10.2

You need Apple's media software iTunes on your computer to use it with your iPad. If you're not already using iTunes you can download it from www.apple.com/itunes. If you have iTunes already, you should update to version 10.2.1 to use with the iPad 2.

iPad 2 specs appeal

When the iPad 2 was announced, it had some surprises up its sleeve. All the talk before its launch was about a 'evolutionary rather than revolutionary' product – with some analysts even predicting the iPad 2 would look identical to the first.

The big news comes in the form of an update to Apple's home-made chip. The iPad debuted the A4 chip, a 1GHz, low power processor. The iPad 2 offers the new A5 chip – a 1GHz dual-core chip that Apple says gives you up to nine times the graphics performance, and speeds up the operating system considerably.

The iPad 2 has the same 9.7-inch screen as the first model – the resolution is 1,024 x 768 pixels, with a pixel density of 132 pixels per inch. But it's not really bad news – once you get your iPad running you'll see that the screen is spectacular. Next to the 326ppi of the iPhone 4, you can tell the difference, but video and text still looks superb on the iPad 2.

The addition of cameras is the other big news on the iPad 2. The front-facing camera is built for FaceTime video chatting. This works over WiFi, and the camera is VGA quality, and can film at up to 30 frames per second with audio. This is similar to most webcams.

The camera on the back offers 720p HD video recording, and can also take stills. It offers a 5x zoom, but it's a digital zoom so really just blows up the image.

Despite the thinner size of the iPad 2 and the dual-core processor, the battery life is comparable with the first-gen iPad – a mean feat of hardware and software engineering. Your iPad 2 should last 10 hours before needing a charge.

SPECS IN DEPTH

Size	242.2 x 185.7 x 8.8mm
Weight	601g 613g
Screen	9.7-inch LED-backlit glossy widescreen Multi-Touch display 1,024 x 768 pixels at 132ppi
Rear camera	Video: HD (720p) up to 30fps with audio Stills: 0.7mp with 5x digital zoom
Front camera	Video recording: VGA (30fps) video Stills shooting: 0.3pm
Battery	Built-in 25-watt rechargeable lithium-polymer battery
Battery life	10 hours watching video or surfing the web 9 hours web browsing over 3G on WiFi + 3G model
Connectivity	802.11a/b/g/n WiFi Bluetooth 2.1 + EDR technology UMTS/HSDPA/HSUPA (850, 900, 1,900, 2,100MHz); GSM/EDGE (850, 900, 1,800, 1,900MHz)
Processor	1GHz dual-core Apple A5
RAM	512MB
Sensors	Three-axis gyrp, accelerometer, ambient light sensor
Input/output	3.5mm headphone jack 30-pin dock connector Built-in speaker Microphone
Location	WiFi and digital compass Assisted GPS Cellular
Audio	Frequency response: 20Hz-20,000Hz
Audio supported	HE-AAC (V1 and V2), AAC (8-320Kbps), Protected AAC (from iTunes Store), MP3 (8-320Kbps), MP3 VBR, Audible (formats 2, 3, and 4, Audible Enhanced Audio, AAX, and AAX+), Apple Lossless, AIFF, WAV, Dolby Digital 5.1 surround sound pass-through with Apple Digital AV Adapter
Video	Video-out support up to 1080p with Apple Digital AV Adapter or Apple VGA Adapter
Video supported	H.264 up to 720p, 30fps, Main Profile level 3.1 with AAC-LC audio up to 160Kbps, 48kHz, stereo audio in .m4v, .mp4, and .mov file formats; MPEG-4 video, up to 2.5Mbps, 640 x 480 pixels, 30fps, Simple Profile with AAC-LC audio up to 160 Kbps per channel, 48kHz, stereo audio in .m4v, .mp4, and .mov file formats; Motion JPEG (M-JPEG) up to 35Mbps, 1280 x 720 pixels, 30, audio in ulaw, PCM stereo audio in .avi file format

Items marked in red apply only to the WiFi + 3G models

Killer features

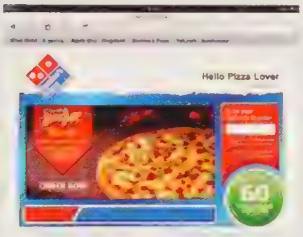
The iPad 2's computing power means that it has thousands of features, and we'll cover a large proportion of these in the pages of this book. Chances are you'll find hundreds of uses for your iPad 2 – via the App Store or simply by playing around with it. However, here we present seven big uses that'll make you forget how you did things before you had your iPad 2.

Read

One of the first things you should download onto your iPad is the brilliant iBooks app. Not only is it a book reader, but it also has a book store built in, so you can browse and download things to read over the Internet. But the iPad's ability as a reading device goes well beyond iBooks. Apps such as Zinio and bespoke magazine apps put mags on your iPad 2's screen, and apps such as Comics let you read graphic novels. Check out Instapaper and Flipboard too, which will help you aggregate online content for your reading pleasure.

Game

The iPad 2's ability as a gaming machine is awesome. The dual-core A5 processor means that it can load up complex games quicker, and the improved graphics performance means visuals will be crisper and faster. It's easy to find free and cheap games to try out on the App Store – and you can turn to page 94 for the definitive list of the 50 best games available for the iPad 2.



Browse

Browsing the Internet on the iPad 2 is incredibly fast. Browsing speed is one of the main aspects that Apple's new hardware has improved, and if you compare the two generations of iPad, the iPad 2 is significantly quicker on the Internet. The touchscreen interface is perfect for exploring websites too – it's more intuitive even than a mouse.

Create

'Haters' will tell you that all you can do on your iPad is watch movies and look at the Internet. Not so. The touchscreen is ideal for creative tasks. Apps such as Photogene make photo-editing a blast, while effects apps like Color Splash allow you to add cool effects to your pictures. There are hundreds of music-making apps (including the brilliant KORG synth emulators), and there are plenty of apps for office-based document-creation too. Apple's iWork suite of Pages, Numbers and Keynote is a good place to start, while apps such as Smart Office are also worth a look.

Shoot

The iPad 2 has cameras built in. And while you might feel something of a plonker whipping it out to take pictures at a wedding (although the white model would look pretty apt for such an occasion), the cameras add a whole realm of creativity to the iPad experience that was missing first time around. iMovie is the flagship app for messing with the cameras.

Communicate

With Mail built-in, the iPad 2 is made for quick and easy communication. The Mail app is elegant and easy to use, but the iPad 2's communication abilities don't stop there. There are apps for every kind of chat – make voice calls with Skype, tweet with one of the hundreds of Twitter clients, get poking with the Facebook app, instant message with Google or AIM. And that's before we've even mentioned another hot new iPad 2-specific feature – FaceTime video chat. The first time you use it, you'll be wowed.

Consume

It may be a little big to be dubbed an iPod, but the iPad 2 has an iPod app built in, and you can sync music, video, book, TV, photos, podcasts, and more to the device for consumption on the go. And the screen is stunning for watching videos and showing off photos. It even has the iTunes Store built in, so you can download new content.

Should you upgrade?

It's the curse of the gadget enthusiast – you snap up the first generation of the best new gadget only for a new one to come out a year later. If you bought the first-gen iPad, you may be caught in two minds about whether to upgrade.

Of course, it all depends on your budget. With the iPad 2, it also depends on what you use your iPad for. If you are just a sofa-sitting web and emailer (as many iPad owners turned out to be), then you won't gain that much from buying the iPad 2, other than a considerable speed boost when it comes to web browsing.

But if you used your iPad in all areas of life, you will find that the dual-core A5 chip will run apps that are richer and more powerful. It may not quite be ready to have users ditching their laptops, but it's not far off.

The cameras will also enhance the iPad's ability to handle next-generation apps. Augmented reality apps, in which the cameras work with the iPad's location services and compass to present location-aware information on the screen, are now possible on the iPad 2.

If you're an iPad gamer, then the iPad 2 represents a huge leap forward, too. Aside from the additional speed on graphics, the iPad 2 has a three-axis gyroscope, making it much more sensitive to its orientation and position. This makes for far more complex and realistic positional games.

The dual-core A5 chip will run apps that are richer and more powerful

Generation gap: iPad 2 vs iPad

Here are just a few ways in which Apple trumped the first-generation iPad with the launch of the iPad 2...

Size: The iPad 2 shaves a few millimetres off the height and width off the original iPad's dimensions, but it's in the thickness that the real engineering feat has been achieved. The iPad 2 is just 8.8mm thick. The first iPad was no fatty at 13.4mm, but the new design is much more baggable, and more comfortable to hold.

Weight: Some users complained that the original iPad's weight of 680g got a bit heavy if you used it for a long time, and was awkward to hold thanks to its heavily curved back panel. The iPad 2 has shaved 79g off the weight, and it's also a flatter shape on the rear, making it much more comfortable to use.

Chip: The iPad 2's A5 chip is a dual-core 1GHz processor, compared to the iPad's single-core 1GHz A4 chip. The dual core allows for faster operation when multiple apps are open, faster graphics for gaming, and more power for apps such as GarageBand, iMovie, and the iWork productivity suite.

Sensors: The iPad 2 has a three-axis gyroscope built in, compared to the iPad's basic accelerometer. This means that it can sense movement much like a Wii remote – so it's great for gaming. And, coupled with the new cameras, the gyroscope means the iPad now supports clever location-aware 'augmented reality' apps.

Video: The iPad 2's video-out options now support full 1080p HD – so if you buy an Apple Digital AV Adapter or Apple VGA Adapter (sold separately) you can send HD video stored on your iPad to your HD TV. The first iPad could only manage 1024 x 768 video output.

Which model should you get?

The iPad 2 comes in a range of specifications, and the advice for choosing one is usually 'buy the most expensive one you can afford'. Nonetheless, there are considerations to take into account – here are the main questions you should ask yourself…

WiFi or WiFi + 3G?

Data needs will vary depending on what you intend to use your iPad 2 for. The ability to connect to 3G networks makes the iPad 2 an incredibly flexible gadget – you'll be able to connect wherever you can get 3G signal in the same way that your mobile phone does.

Depending on what mobile phone operator you are with, you may be able to get a subsidised iPad 2 if you sign up to a two-year contract. Operators vary slightly, but the norm seems to be about £200 for the iPad 2, plus £25 per month for two years.

If you anticipate needing to send emails on the move, for example, 3G might be worth the extra cash. However, it's unlikely that you'll use your iPad's 3G connection in the same way as you would your smartphone – to quickly check a train time, for example. The iPad 2 is just too bulky to whip out and check when you're out and about – it's a more involved experience than using your phone.

If you anticipate using your iPad 2 at home, and you have a WiFi network, then the basic WiFi-only model will surely suffice.

It's also worth investigating whether your phone can share its 3G connection with other devices. This can work out cheaper than buying the iPad 2 WiFi + 3G, although you will sacrifice your phone's battery whenever you share its 3G – such activity drains juice fast.

NEED TO KNOW
Spot the difference
The only visual difference between the look of the WiFi and the WiFi + 3G model is that black stripe across the top of the 3G. This houses the 3G and A-GPS antennae.

How much storage?

The size of your iPad 2's storage is harder to illustrate in such simple terms, because when it comes to gigabytes, it's all about how little you want to spend and how much you're prepared to compromise.

The first consideration is easy. Do you have stacks of music and video that you want sync to your device and have access to at all times? In this case, even the 64GB maximum might not cut it, so you'll have to stump up for that and do the best you can. If you're less inclined to put your whole library on your iPad 2, choose one of the smaller sizes and use a streaming service for music.

Movies are another big drain on your iPad's memory – a full-length feature film will easily be more than 1GB. Also – while most apps and games are tiny snippets of code, some apps are huge – FIFA 11 HD, for example, is 890MB, while GarageBand is 369MB. If you're going to be buying a lot of heavy-duty games and apps, 16MB will run out quickly. However, files such as iMovie or GarageBand projects can always be saved onto your computer, and in general it's the apps more than the files that take up a lot of space.

Space usage guide
The iPad operating system takes up around 2GB, so you actually get less than the advertised capacity to use. Here's some numbers to give you an idea of how much space you'll have on your iPad 2…

Music: 1GB = around 8 albums at 256kbps quality (the bit-rate sold on the iTunes Store).
Movies: *The Social Network* (two hours) is 1.72GB
Apps and games: Splinter Cell Conviction HD is 522MB, while Keynote is only 61MB. Two console-style games will take up around 1GB

Wireless world

Apple's AirPlay technology brings wireless entertainment home...

Apple is something of a stickler for neat and tidy design. Whether it's removing as many buttons as possible from the iPad 2, or hiding the power switch on the iMac so that most people have to ask where it is, minimalism is key.

So perhaps it's no surprise that Apple is leading the way when it comes to removing wires from the gadget user's life. Wireless technology is novel, convenient, and neat – and it's fast becoming the default feature for all kinds of devices.

Indeed, for gadgets such as the iPad 2, the ability to connect to the Internet is pivotal, allowing you to access information and communicate on the go. But Apple is now moving on to wireless content delivery with the AirPrint and AirPlay technology that is built into iOS 4, and this is the kind of technology that could change the way we consume music and video in our homes.

With nothing more than your iPad 2 and a couple of add-on devices, you can effortlessly stream music and video content throughout your house.

Into the stream

Wireless streaming systems for music have been around for a while – for example, those that use Bluetooth. However, quality does suffer when you stream music over Bluetooth, even over A2DP stereo. Some companies have developed proprietary wireless streaming systems, but these usually require a dongle to plug into your iPad or iPhone. Apple's AirPlay technology does away with all of that, simply

using the WiFi system in your house to transmit music.

AirPlay replaces Apple's AirTunes technology. This was a music streaming system that required several add-ons – the Apple TV, and an AirPort Express. The Apple TV is a device that connects to the Internet and to your television, delivering content from your PC and from the Internet to your TV. The AirPort Express is a device that sets up a wireless network using your home broadband connection. You can connect it to your stereo's speakers, allowing music to stream from your computer to the stereo.

AirPlay takes these features and adds some others – it lets you stream to the Apple TV and AirPort Express base-station directly from your iPad 2, iPhone, or iPod touch. And, with AirPlay, Apple added another twist – it licensed the technology to a select group of third-party speaker makers (including Bowers & Wilkins and iHome) so that AirPlay compatibility could be built into speaker systems, allowing users to wirelessly stream to their speakers straight out of the box. There is plenty of scope for more wireless streaming options in the future, as we explore over the page.

Not quite as sexy, but impressive and useful nonetheless, Apple has also added AirPrint to the iOS setup. Now, with a compatible WiFi printer (currently only made by HP) you can print photos, documents, web pages and more from your iPad 2 in just a few taps.

If you're serious about using your iPad 2 for work, then it'll be vital that you can print easily – and thanks to AirPrint, this is also a breeze. With the iPad 2's amazing media streaming capabilities, it's becoming the go-to gadget for music and more around the house. »»

6. The Rhodes Not Taken
Glee, Season 1
Will thinks the glee club desperately needs more of an edge, so he brings in his former classmate, April Rhodes (guest star Chenoweth), to spice things up. Will's plan seems to be going smoothly until he realizes he may be losing a key member of the club. Musical performances include "Somebody to Love", "Maybe This Time", "Alone" and "Last Name".
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Viewers Also Rented

Apple TV

How the Apple TV can enhance your home cinema experience

The Apple TV started life as a big silver box that few people really wanted. For a while, it was unclear whether even Apple knew whether there was a market for it. Now though, Apple's given it a slick, black redesign, and with the advent of AirPlay, the Apple TV has a new lease of life.

The Apple TV is an Internet-connected box that plugs into your television. Once installed, it can receive AirPlay streams from various locations – such as your computer, your iPhone, or your iPad 2.

To use it, you simply play music or video from your iPad 2's iPod or Videos app. You'll see an icon that looks like a doubled-up version of the iPad 2's WiFi icon. Tap that, and you'll see the option to play the media over your Apple TV. The media should stream to your television through the Apple TV – and you can use the iPad 2 (or iPhone or iPod touch) as a remote control from your sofa.

Future thoughts
How AirPlay could evolve into an industry standard

Apple is notoriously tight with licences. But gadget companies are gradually starting to release AirPlay speakers, and rumour has it that this could be the start of a broader trend.

Business media agency Bloomberg has reported a rumour that suggests AirPlay technology could be licensed to companies that make HD televisions. This would mean you'd be able to stream movie content from your iPad 2 straight to your TV, without the need for an Apple TV.

The rumour makes sense – Internet-enabled TV sets are becoming increasingly common, and Apple could put its industry-leading iPad product line right at the centre of home entertainment.

The AirPlay setup

Take full advantage of AirPlay on your iPad 2 with these add-ons

Speaker systems

Apple initially licensed a handful of companies to make AirPlay-compatible speakers, and there was a huge delay in the products coming to market – many were displayed at CES in January 2011, but it wasn't until March that the products started to emerge. A delay in finalising Apple's software was thought to be the reason. Company's such as Bowers & Wilkins, iHome, Denon, Marantz and Philips got in early, but more will follow. The Bowers & Wilkins Zeppelin Air is the first available in the UK, and it's a beauty. Even if it does cost £500.

Plug-and-go printing

It may not sound like much, but printing from your iPad 2 is a pretty cool feature, especially when you consider how incredibly easy it is to set up one of HP's AirPrint-compatible printers. We tested the feature with the HP Photosmart Premium C310a, and it's a question of simply plugging in and switching on the printer, connecting it to your local WiFi network, and hitting 'Print' on the iPad's share menu. The iPad 2 found the printer with no set-up whatsoever. If you put some glossy photo paper into the printer it will even print 6 x 4in prints.

iPhone or iPod touch

If you have an iPhone or iPod touch, you probably have various apps and content synced to your iPad 2 and your other iOS devices. With AirPlay, you can play all of that content on your AirPlay speaker set or on the television.

AirPort Express

If you don't want to shell out on a new iPad speaker system, you could get an AirPort Express to connect to your exising hi-fi. It costs £83 from Apple, and can also be used to connect to other USB devices, such as printers and scanners, wirelessly.

iPad 2 Who's Who

How the iPad 2 will prove its worth whatever your job, interests or budget

Backpacker

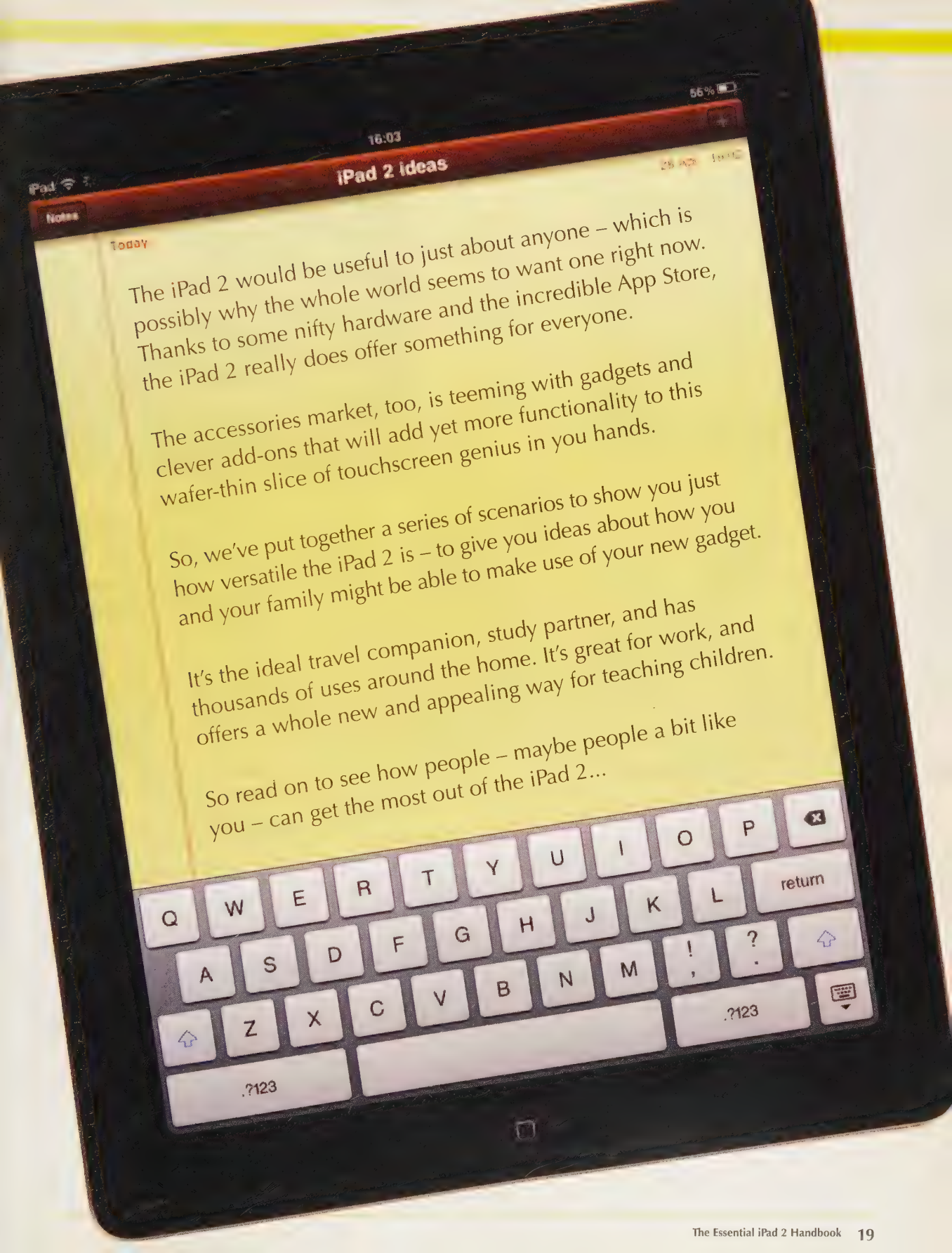
Student

Businessperson

Teenager

Homemaker

Kid


iPad
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Notes
iPad 2 ideas
Today
The iPad 2 would be useful to just about anyone – which is possibly why the whole world seems to want one right now. Thanks to some nifty hardware and the incredible App Store, the iPad 2 really does offer something for everyone.
The accessories market, too, is teeming with gadgets and clever add-ons that will add yet more functionality to this wafer-thin slice of touchscreen genius in you hands.
So, we've put together a series of scenarios to show you just how versatile the iPad 2 is – to give you ideas about how you and your family might be able to make use of your new gadget.
It's the ideal travel companion, study partner, and has thousands of uses around the home. It's great for work, and offers a whole new and appealing way for teaching children.
So read on to see how people – maybe people a bit like you – can get the most out of the iPad 2...
Q W E R T Y U I O P
A S D F G H J K L return
Z X C V B N M ! , ? .
.?123
.?123

The Businessperson

Getting down to business with the iPad 2

A typical day:

The Businessperson gets up early to start their day, catching up with the news on their iPad in the kitchen as they get breakfast. Their iPad can tell them about traffic incidents, train delays and Tube problems before they even set off on their journey.

During the day, the Businessperson can take notes with their iPad, use it for presentations, send emails and instant message colleagues, and even work with Office documents. And FaceTime and Skype video conferencing means there's no need to travel to another office for meetings.

Then on the commute home, the Businessperson can watch a movie or read a book – all on their iPad.

Recommended model:

iPad 2 WiFi + 3G (black) 16GB

For always-on Internet access, no matter where they are, the Businessperson needs that 3G signal. Black spells professional and with most files on computers or the cloud, 16GB of storage should be fine.

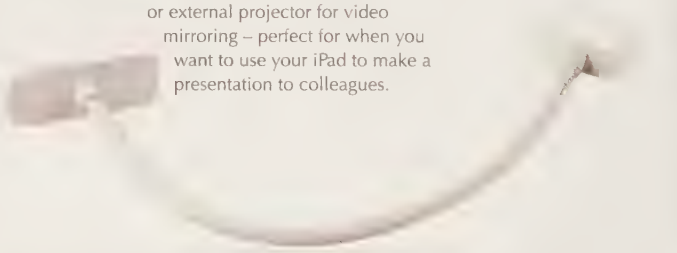
Perfect accessory:

Apple VGA Adapter

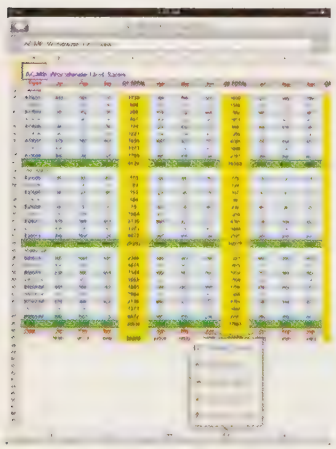
£25

www.apple.com

Let's you put whatever is on your iPad on a VGA-equipped TV, monitor or external projector for video mirroring – perfect for when you want to use your iPad to make a presentation to colleagues.



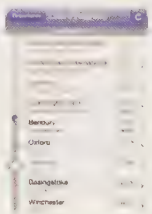
Essential apps: Downloads for work



Documents to Go

£9.99

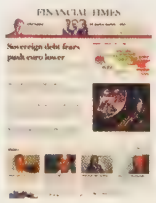
Documents to Go lets you sync over your Microsoft Office documents to your iPad, open them, edit them using many of Office's advanced features, then sync them back, and still have all the formatting preserved.



National Rail

£4.99

For busy commuters who need to know if their train's been delayed, what time the next train is, which platform it's going from and the last train home, National Rail is indispensable.



Financial Times iPad edition

Free

Read the entire *Financial Times* specially formatted for the iPad. Customise it, watch video coverage and track stocks, and if you're going to be offline later, download all the content before you go.

The Homemaker

For chores, for entertainment and for inspiration, the iPad can't be beaten

A typical day:

The Homemaker starts the day making breakfast for the family, while listening to the radio over the Internet on their iPad. After taking the kids to school, they return home to tidy the house, and do the chores, while listening to podcasts and music. The groceries that they ordered using the Tesco groceries app arrive dead on time.

If the Homemaker finally has some free time, they head off to the gym, using an iPad personal fitness training app. Then they return home to cook the evening meal using one of the many recipe apps available for the iPad.

Recommended model:

iPad 2 WiFi 16GB (black)

With WiFi available at almost every destination, the extra expense of 3G is unnecessary for the Homemaker. Easy access to a computer for syncing means that more storage isn't needed, so 16GB should be more than sufficient. And choosing the black edition ensures that the iPad remains spotless.

Perfect accessory:

Just Mobile Encore stand for iPad

£59.95

www.apple.com

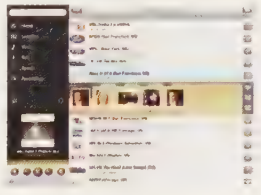
This stylish stand securely supports your iPad in portrait and landscape mode, using rubber to avoid scratches. The adjustable fold-down arm allows you to position the iPad for optimal viewing when your hands aren't free.

Essential apps: For the house-proud

Home Interiors Ideas HD

£1.19

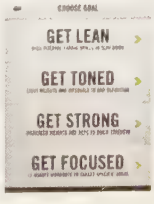
This app presents hundreds of HD photos of some of the most impressive interiors. You can bookmark your favourites so that you can remember the ideas you want to recreate with more affordable kit.



TuneIn Radio

£0.59

Not only can you listen to radio stations from all around the world, complete with listings, including the BBC's stations, but you can also pause, rewind and record live broadcasts to play back later – vital if you're going to get interrupted a lot.



Nike Training Club

Free

Nike Training Club is a training app that provides you with your own personal trainer, anytime, anywhere. It has more than 60 custom-built workouts featuring audio guidance and on-demand instruction from a Nike Professional Trainer.

The Teenager

Stay in touch with and impress friends with the iPad

A typical day:

The Teenager wakes up and within moments is accessing Facebook on their iPad, using it to chat and find out what their friends have been up to. After leaving the house, they meet with their friends, filming videos using the iPad's camera – and still keeping in touch with their other friends on Facebook.

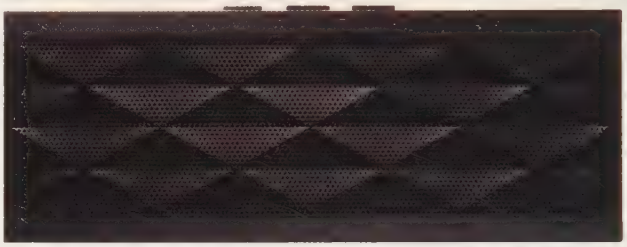
They then go to a Starbucks for coffee and use the WiFi there to look at full-screen YouTube videos or play network games.

Then, when it's time to go home, the Teenager can rent age-appropriate movies or catch up (quietly, thanks to the iPad's headphones) on TV with one of the many TV iPad apps – then say goodnight to their friends on Facebook.

Recommended model:

iPad 2 WiFi + 3G 32GB (white)

For always-on connectivity, the Teenager just needs that 3G connection as well as WiFi. And with all that media to watch and record, more storage is a must.



Perfect accessory:

JAMBOX by Jawbone Wireless Speaker

£159.99

http://jawbone.com

Jambox plays your iPad's music wirelessly via Bluetooth, but despite an output of 85 decibels, it fits in the palm of your hand. It also has its own apps that you can download to add extra features.

Essential apps: Keeping up to date

MyPad

Free

Facebook has an iPhone app (which you can use on your iPad 2 and stretch the screen) but no native iPad app. The Facebook website looks great on the iPad screen, or you could try MyPad, which works like the Twitter app but for Facebook.

iMovie

£2.99

Make and edit movies in high definition on your iPad. Add music, photos, video and sound effects, then share them on YouTube, Facebook or Vimeo or sync them back to your Mac to do more work on them.

BBC iPlayer for iPad

Free

Watch and listen live to BBC TV and radio programmes, or catch up on your favourite BBC programmes from the last seven days. Add programmes to your favourites and have them ready and waiting when they're available.

The Kid

Keep them occupied and educated with an iPad 2

A typical day:

The Kid wakes up bright and early and surprises their parents while they're still in bed. So the parents give the Kid the iPad so they can watch *Finding Nemo* for the 15th time. After breakfast, the Kid can play some age-appropriate games, such as Thomas The Tank Engine, or take advantage of the iPad's camera to play the hilarious Face Melter.

To get them ahead of their classmates, the Kid can then use educational apps that teach them about spelling, numbers, music and languages, before night time comes and they can relax, once again, with *Finding Nemo*. Or an iBook.

Recommended model:

iPad 2 WiFi 16GB (black)

No need for bells and whistles, just the basic model for the Kid for both storage and connectivity. However, even though the iPad wipes clean, white is never a good idea with kids.

Perfect accessory:

Ektopad iPad case

£21

www.kidsipadcase.com

Made from silicone to protect against drops, this makes the iPad feel like a Wii remote and includes an elasticated strap so it can be attached to the backs of car headrests for long journeys – that should keep 'em quiet.

Essential apps: For hours of fun

Face Melter

Price £1.19

Face Melter can generate funny facial expressions out of pictures imported from the image library or directly from the camera. They can also be animated at 25 frames per second. The Kid can have hours of fun making a video of Mum or Dad's face.

Thomas & Friends: Misty Island Rescue

£2.99

Read, watch, listen and play with kids' favourite Thomas The Tank Engine and his friends. Not just a story, this includes painting, dot-to-dot, a jigsaw and other puzzles.

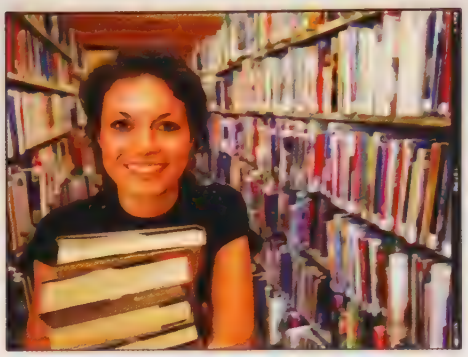
ABC Animals

Price £1.19

ABC Animals provides interactive flashcards that aid in teaching young children to recognise, say and print English alphabet letters. And to get them ahead, start them off in foreign languages – it includes handy French, German and Spanish flashcards.

The Student

For work, for leisure, for finding the nearest pub



A typical day:

The Student's day starts – after entering how much they drank the night before in their iPad's NHS Drinks Tracker – with lectures. Recording them for later listening or viewing with the iPad's microphone or camera, the Student can then catch up on their reading, do some research on the web, write up their work (no need for a separate laptop) or download some iTunes U lectures.

In the evening, the Student uses the iPad to look up the times of shows, movies or gigs and book tickets. Afterwards, they can use their iPad to find the nearest pub.

Recommended model:

iPad 2 WiFi + WiFi 64GB (white)

The 3G iPad ensures that the Student has information at their fingertips or in their bag whenever they want, wherever they want. Large storage means no need for a separate laptop and their entire music collection on iTunes. And white is so non-conformist.

Perfect accessory:

Apple iPad Keyboard Dock

£56

www.apple.com

The Apple iPad Keyboard Dock gives you an actual keyboard for typing, a built in AC charger to keep the iPad's battery fully charged and a Dock for connecting and syncing to a computer (if you have one).

Essential apps: For work and play

Pages for iPad

£5.99

Pages has all you need to create and share documents, including Apple-designed templates, easy-to-use formatting options, and advanced layout tools. You can also import Microsoft Word or text files.

Kindle for iPad

Free

Download and read any of Amazon's 900,000+ Kindle titles, including many of the classic novels for free (or nearly free). You can also make notes, highlight text and search for text in books, making it essential for essays and dissertations.

Movies by Flixster

Free

Movies by Flixster lets you watch movie trailers, find screening times, search critic reviews from Rotten Tomatoes, and share movie ratings with your friends. It can find the nearest cinema, tell you what's on at what time and provide you with full booking details.

The Backpacker

The iPad 2: a guide, a companion, a souvenir-keeper

A typical day:

As soon as the Backpacker is ready for the day, they're using their iPad to look at where to go, whether it's in a guide app or on a website. They can check out times and buy tickets for trains and planes, or search for great walking routes. Then they can head off, ready to explore and take photos with their iPad.

Using a journal app, they can track their route and store notes about where they've been, before night comes when they can post their pictures and movies online, before watching the stars and learning about them with the Star Walk night sky map app.

Recommended model:

iPad 2 WiFi + 3G 64GB (white)

Always-on 3G and GPS are essential for the Backpacker, while the large storage means that there's plenty of room for pictures, videos and entertainment to record memories of your travels and share with friends back home. And white just looks cooler on a beach or in a café.

Perfect accessory:

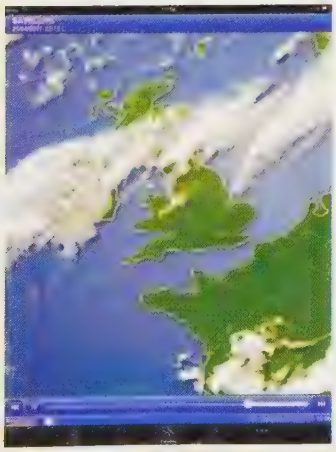
Otterbox iPad Defender Case

£69.99

www.otterbox.com

Designed to withstand just about any environment, it has a silicone skin to absorb shocks, a polycarbonate shell and a foam interior to stop scratching. Plus the clip-on touchscreen cover has a fold-out stand – handy for FaceTiming the jealous people back home.

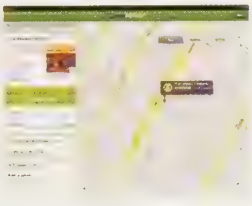
Essential apps: Travel in style



WeatherPro for iPad

£2.99

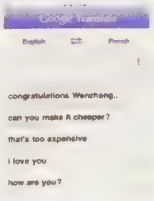
This weather forecasting app takes detail to the extreme, and offers a premium subscription service that gives you 14-day forecasts – essential if you're in the process of deciding where to lay your sun hat next.



TripAdvisor

Free

Not only can it tell you great places to go to before you head off, Trip Advisor can also tell you where to stay and eat when you're there thanks to a wealth of user reviews. An augmented reality view will let you see where recommended places are nearby.



Google Translate

Free

Who needs a phrase book when Google Translate can not only translate written text between 57 languages, but can also translate what you say into 15 languages and have them spoken aloud in 23 languages?

Start up

You've splashed your cash and got your grubby mitts on a brand new iPad 2. What now? The tutorials over the next 46 pages will have you up and running in no time...

At a glance – how to get started with your iPad 2

27 The basics
28 How to sync
32 Guide to iOS
36 App Store shopping
40 Shopping on the iTunes Store
42 Buying books on the iBookstore
46 Setting up Mail
48 Setting up a POP account
50 Mail: a guided tour
54 How to use Calendar
58 Fun with Photo Booth
60 Using the cameras
62 Video chat with FaceTime
64 Get online with Safari
68 Playing media on the iPad 2
72 15 bonus tips and tricks

NEED TO KNOW
Throughout this book, you'll find these Need to Know boxes, offering vital context and explaining in more depth what you're learning to do.

EXPERT TIPS
Our tutorials are littered with expert tricks, and you'll find a [illegible] knowledge dotted all over the Start-up and Apps in depth sections.

WANT MORE?
You may find yourself wanting to explore further. These boxes offer recommended apps and techniques for you to follow up and try out.

The basics

Your guided tour of the iPad 2...

Headphone jack

The iPad 2 works with any 3.5mm headphones – the white ones that come with your iPad have a remote control for controlling music. The socket is also an input, so with the right gadgets you can use it to plug musical instruments into your iPad 2.

Sleep/wake

The Sleep/Wake button is located here. This lets you quickly lock the iPad 2 when you're done using it. You also hold it down to turn the device on and off.

Hardware switch

You can define what this switch does in Settings – you can set it to lock the orientation of the screen (so that it doesn't rotate when you turn the iPad 2 around), or you can use it as a mute switch.

Spy hole

This is the camera that allows you to take pictures of yourself in Photo Booth and have FaceTime video chats with your friends. The other camera is on the back – this lets you take pictures and shoot video, using the screen as your viewfinder.

Louder, softer

The volume switch is located here for when you're using the iPad's iPod app (and many other apps that make sound). There's also an onscreen volume slider.

Take me Home

No matter what you're doing on the iPad 2, the Home button will always take you back to the Home screen. Press it to exit apps. Press it again to be taken to the search screen (you can also get there by swiping left from your Home screen).

Out of the box: set up your iPad 2

▶ Congratulations! You've taken the plunge and bought your iPad 2. Remember to savour taking it out of Apple's outrageously lavish packaging, because you only get to do it once.

Now it's time to set up your iPad so you can start exploring its many features. The key to this, at least to start with, is iTunes – Apple's media management software. This started out as a music program, but now takes care of everything from apps and contacts to movies and music.

Your iPad takes its setup information from iTunes, and you 'sync' content across from your computer to your iPad 2, all through iTunes. So the first thing you need to do when you've taken the iPad 2 out of its box is plug it into your computer.

Syncing content through iTunes is pretty straightforward, but there are all sorts of tricks and tweaks you can perform to get your iPad running just the way you want it to. Read on to get started.

VITAL INFO

You should only ever see this screen once – unless you later wipe your iPad 2 and start again. Until you've plugged your iPad 2 into your computer and started syncing content, though, this is all your iPad 2 can do – so that's the first step.

You will need
Your iPad 2
Mac with OS X 10.5.8 or later, or PC with Windows XP or later

Time required
30 minutes

Source list

This bar on the left-hand side of iTunes is called the 'Source list'. When you connect your iPad 2 it will always appear here. Click it to edit your sync options.

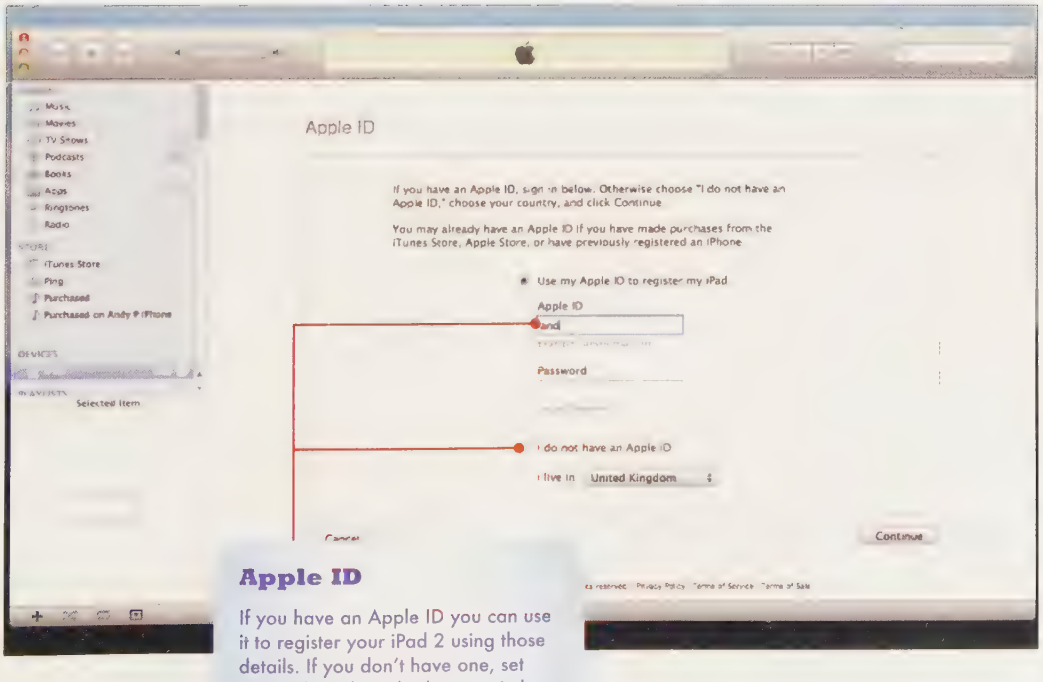
Let's get started:
1. Register Your iPad
Register your iPad to stay up-to-date with important information about your new iPad and get faster access to customer support.
2. Set Up Your iTunes Store Account
Preview and download your favorites instantly, day or night (where applicable).
Register Later
Continue

Easy does it

Registering your iPad will add you to the Apple mailing list and makes things easier if you need have to call customer support. However, it's not essential.

Moving on

Click either 'Register later' or 'Continue'. Follow the simple instructions through the initial setup.


Apple ID
If you have an Apple ID, sign in below. Otherwise choose "I do not have an Apple ID," choose your country, and click Continue.
You may already have an Apple ID if you have made purchases from the iTunes Store, Apple Store, or have previously registered an iPhone.
Use my Apple ID to register my iPad
Apple ID
Password
I do not have an Apple ID
I live in United Kingdom
Continue

Apple ID

If you have an Apple ID you can use it to register your iPad 2 using those details. If you don't have one, set one up by ticking this bottom circle to indicate that you need one.

NEED TO KNOW
What's an Apple ID?

An Apple ID is an online account that's linked to your credit card, so you can make quick and easy payments for apps, music, and movies. If you don't have an Apple ID you can set one up as part of your iPad 2 setup.

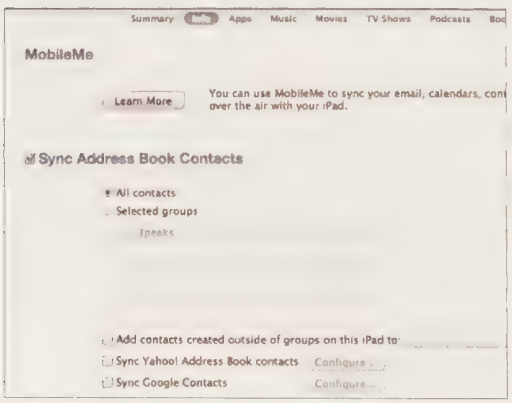
Getting set up

Using iTunes, you can add content such as music, books and films and even your address book to your iPad 2. iTunes is also where apps – and other content you've downloaded to your iPad 2 – back up to when you connect the device to your computer. Here's how to get started.

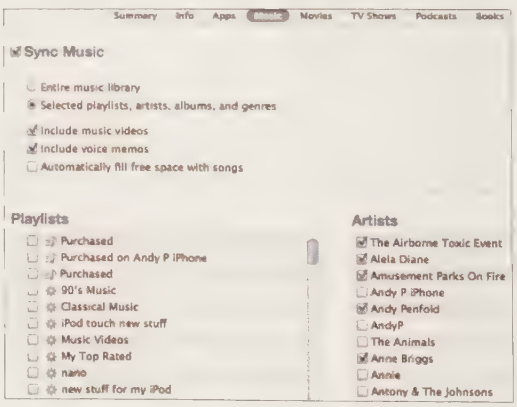
EXPERT TIP

Hopefully you'll never need it, but if you have problems with your iPad you can hit 'Restore' here. Your iPad should automatically back up each time you plug it in, so you will only lose data added since your last backup.

1 The summary screen shows you information about your iPad 2 at a glance. The bar at the bottom shows how much space on the iPad's flash memory you have left. Then there's a button to check for software updates, and options controlling how iTunes responds when you connect the iPad 2 to your computer.

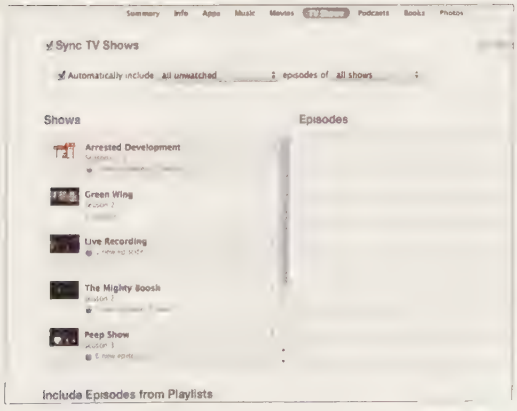


2 The Info tab lets you sync information such as contacts or the Calendar, from your computer to your iPad 2's built-in apps. You can also sync email accounts. To do this you will need your email set up in the Mail app on your Mac, or Outlook Express, Outlook 2003 or later, Windows Contacts, or the Windows Address Book.

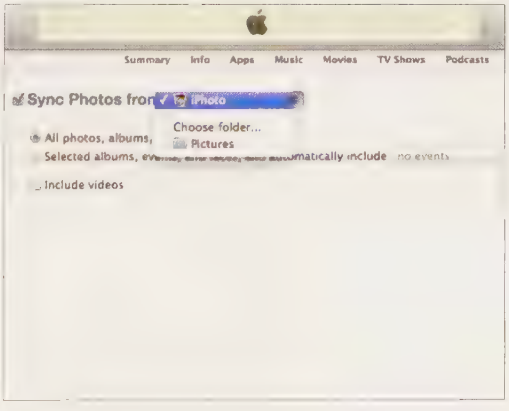


3 This is where things get interesting: in the Music tab, you can sync your music to your iPad 2. This takes music from your iTunes library and copies it to the iPod app on your iPad 2. This means you can listen to tunes on the move, and also enables certain apps to use your music – including several that help you learn to play instruments.

4 The Apps tab is where iTunes backs up all the apps you've downloaded to your device. This means if something goes wrong with your iPad 2, your apps collection isn't lost. You can drag and drop apps from the list on the left onto the picture of your iPad 2, and even rearrange them on your iPad's home screen through this iTunes screen.



5 Movies, TV shows, podcasts and books – both audiobooks and ebooks – sync in much the same way. iTunes stores and organises content, ready for syncing to a mobile device such as the iPad 2. Scroll through the tabs at the top to set your syncing preferences, keeping an eye on how much free space you have in the bottom bar.



6 You can also add photos to your iPad 2 using iTunes. On a Mac you can set the iPad 2 to sync photos and photo albums from iPhoto, or you can pick a folder on your Mac or PC for iTunes to sync to the iPad 2. When you've chosen all the content you want to transfer, click 'Apply' in the bottom-right corner and wait for the content to copy.

EXPERT TIP

In the Summary screen, you can set your iPad to convert high bit rate tracks down to 128kbps. This will save space on your iPad if you're syncing a lot of high-quality music.

Get to know the iOS interface

▶ You will navigate around your iPad 2's apps and content using Apple's slick iOS interface. The iOS has come a long way since it was introduced for the first iPhone – and even that was pretty impressive when it emerged in 2007. Now in version 4.3, iOS incorporates many new tweaks and technologies to make using your iPad 2 easier and more fun than before.

The main problems with early versions of iOS were that you could only use one app at a time – so no multitasking – and there were no tools for organising apps. All this has been fixed now: this tutorial introduces you to the iOS.

VITAL INFO

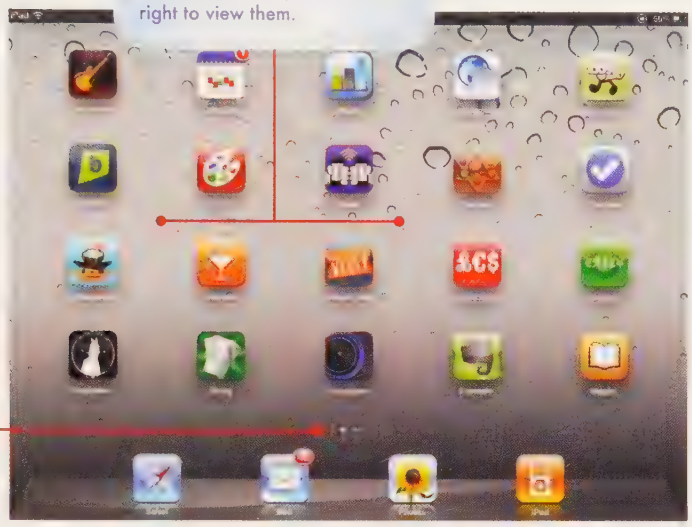
This tutorial will show you how to multitask and manage running apps, and how to organise your apps into folders.

What you need
Your iPad 2
A selection of apps – any will do

Time required
10 minutes

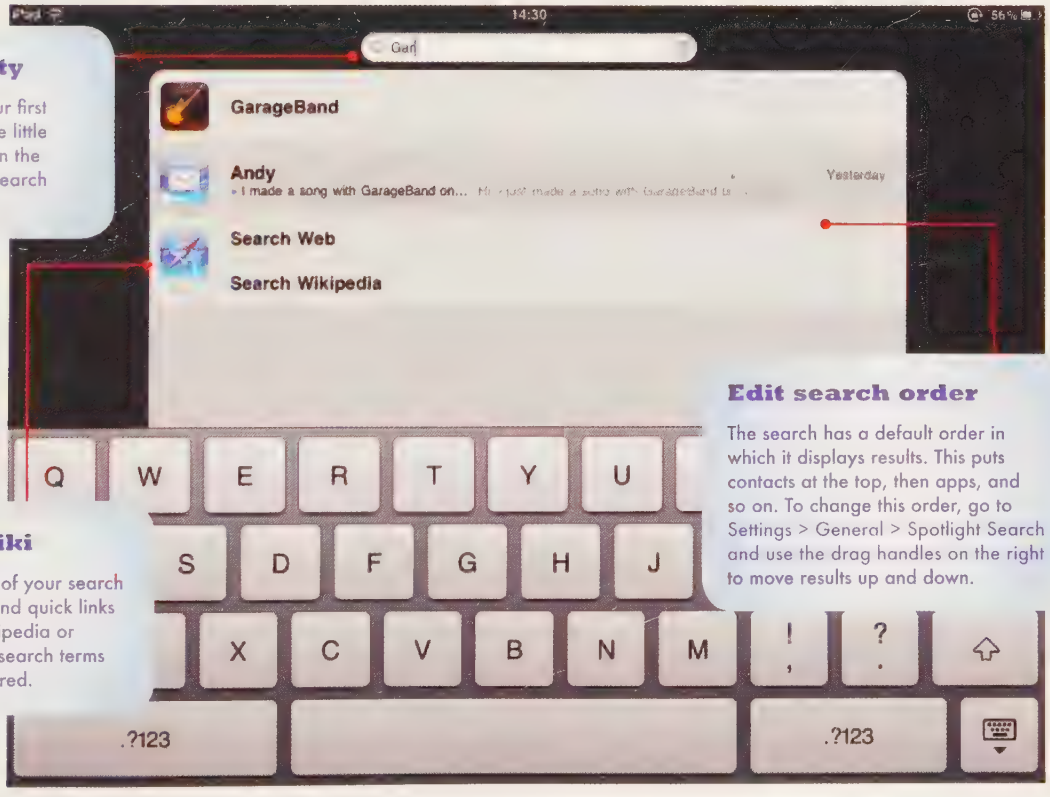
Swipe for apps

Once you've got more than just the default apps on your iPad, they'll appear over multiple home pages. Swipe left and right to view them.



Page turner

These dots show how many pages of apps you have and what page you're on. They're always visible from the home page.



Search party

Swipe left from your first page of apps to the little magnifying glass on the page indicator to search your iPad.

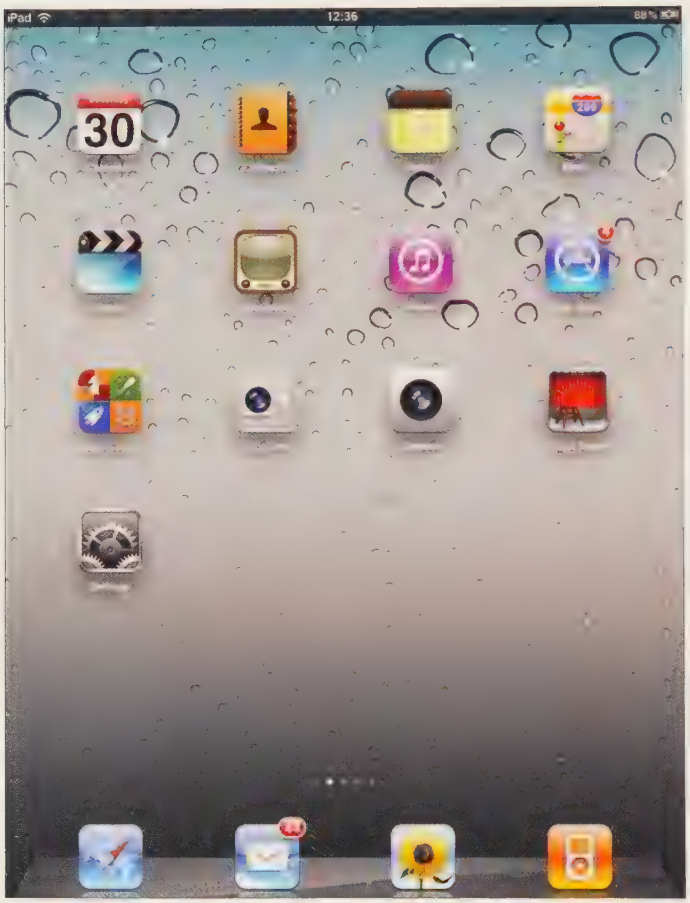
Edit search order

The search has a default order in which it displays results. This puts contacts at the top, then apps, and so on. To change this order, go to Settings > General > Spotlight Search and use the drag handles on the right to move results up and down.

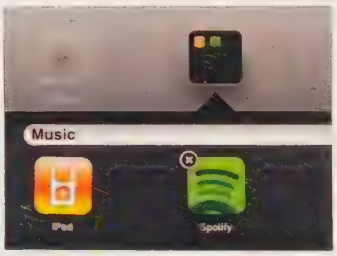
Quick Wiki

At the bottom of your search results you'll find quick links to search Wikipedia or Safari for the search terms you have entered.

1 You know by now what the iPad 2 home screen looks like. Apple's built-in apps and all the others you download appear here. But if Apple's order doesn't suit you, it's time to get customising.



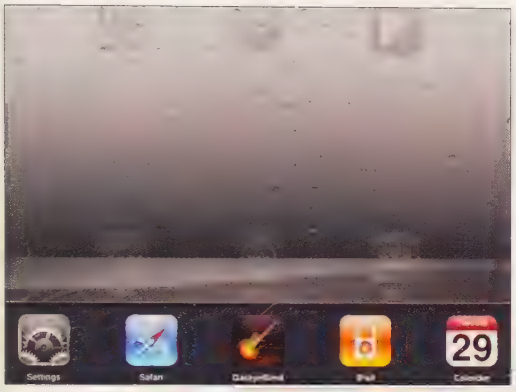
2 Tap and hold any app icon until the icons start to wobble. Now you can drag them around. You can even edit the bottom row of icons, which appear on every page. Tap the 'Home' button to set your layout.



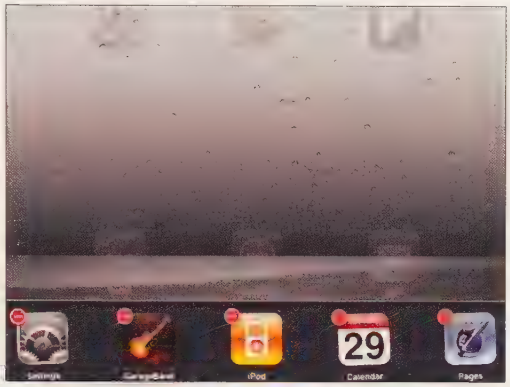
3 Folders offer another way to manage your apps. To create one, just tap and hold an app so that they wobble, then drag one icon onto another. The iPad 2 will create a folder with both apps inside.

WANT MORE? *Rename Folders*

The iPad 2 will automatically name your folder based on the apps you put in it – but you can edit this. When you create a folder, tap the automatic name and the keyboard will spring up for you to enter your own.



4 When you open apps they stay open, even if you navigate away from them. Double-tap the 'Home' button to see a list of apps which are open in a 'tray' at the bottom of the screen. This can run to several pages.



5 Running a lot of apps simultaneously can affect battery life. To close apps you no longer need open, go to your apps tray, then tap and hold one. The icons will wobble, and you can tap the '-' sign to close individual apps.

NEED TO KNOW
Quick access

By default, the bottom row of apps has four icons on it, but you can drag up to six apps (and even folders) onto it. These are visible on every page for easy access.

6 You can also organise your apps using iTunes on your computer. Connect your iPad 2 to your computer, and in iTunes select Apps in the top bar. You'll see a visual representation of your home screens and you can drag and drop apps. Even apps you've deleted from your iPad 2 are stored here, if you backed them up.

NEED TO KNOW
iPod controls

If you've got music playing while you do other things on your iPad 2, there's a quick way to control it. Double-tap the 'Home' button and swipe to the left. You'll see controls for your music, as well as a button to edit screen brightness.

Buy apps, music and more from the iTunes Store

▶ The iTunes Store is the essential element in the iPad 2's setup that turns a good user experience into a great one. iTunes started as a humble media manager; now it hosts an online store selling music, movies, TV shows, books, and the all-important apps.

Over the next few pages, you'll learn how to buy and download content for your iPad right on the device. You can also use the iTunes Store and App Store using iTunes on your desktop – indeed, you may have already used the iTunes Store for music. If you have, you will use the same account details when you shop using your iPad 2.

If you haven't yet got an account with the iTunes Store, it's easy to set one up. You just need your iPad 2 (or your computer) and a credit or debit card. If you're nervous about storing your card details online, it may reassure you to know that Apple CEO Steve Jobs said at the launch of the iPad 2 that there are now 200 million user accounts on iTunes – so you're in good company.

VITAL INFO

This tutorial walks you through getting an iTunes account, and shopping on the iTunes and App Stores.

What you need
Your iPad 2
WiFi connection
An iTunes account and Apple ID
A credit card

Time required
1 hour

Shop now, pay later

Apple makes it easy to set up an iTunes account. You can browse the stores, and set up your payment account when you've found something you want to buy.

Enter password

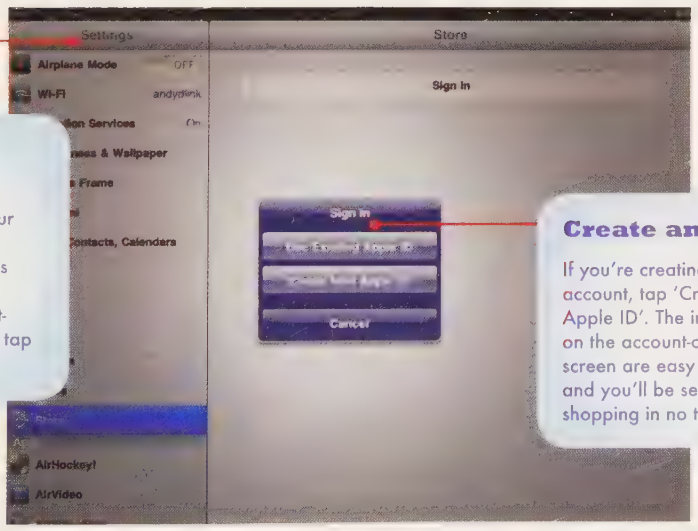
Tap 'Use existing Apple ID' if you've shopped on iTunes before. When you first sync your device to your computer, the iPad 2 will import your Apple ID, so all you'll have to do is enter your password.

NEED TO KNOW
Launching the Stores

The iTunes Store and App Store are built into your iPad 2. Launch them by tapping their respective icons from the home screen.

Or try...

You can also set up or log into your iTunes account through the iPad's Settings app. Hit 'Store' on the left-hand panel, then tap 'Sign in'.

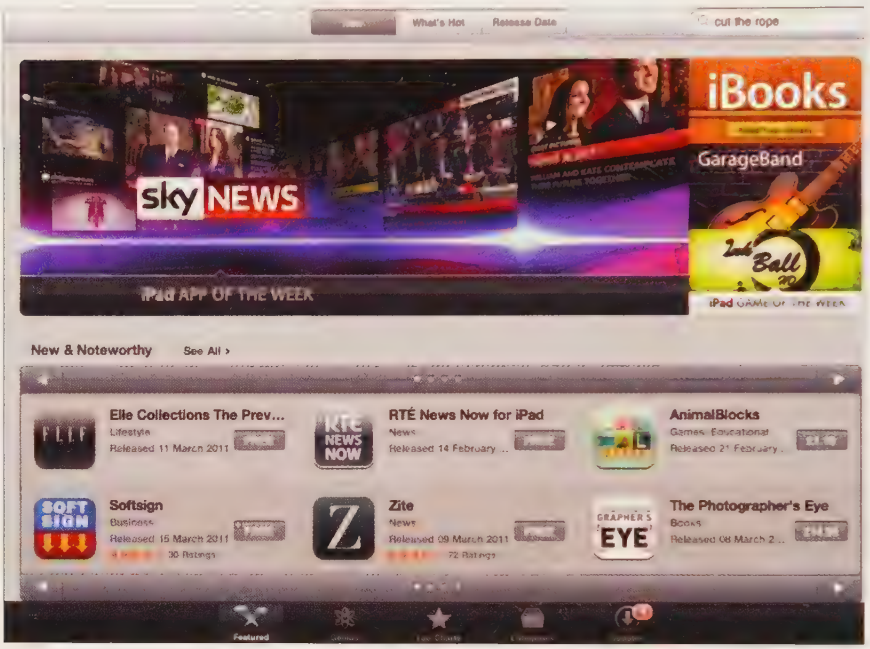


Create an ID

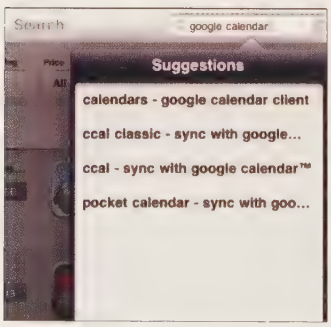
If you're creating a new account, tap 'Create New Apple ID'. The instructions on the account-creation screen are easy to follow, and you'll be set up for shopping in no time.

App-solutely fabulous

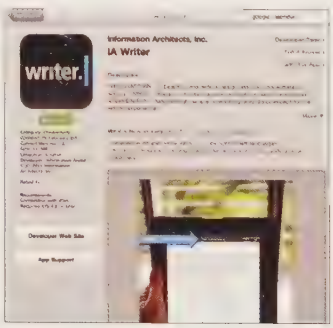
Time to boost your iPad 2's capabilities and transform it into the ultimately customised device it is by choosing from the millions of apps to download from the App Store.



1 Launch the App Store from the home screen of your iPad 2 and you will be taken to the store's front page. Click the 'New' and 'What's Hot' tabs at the top of the screen to see featured apps. 'Release Date' shows you the very newest apps on the market.



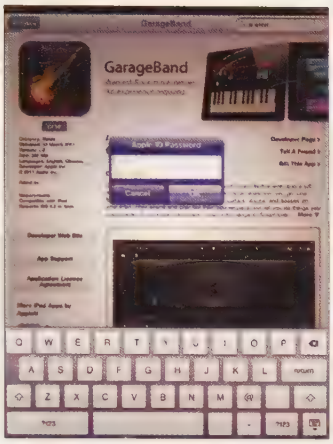
2 If you're looking to find a specific app (perhaps one you've read about in the feature on page 82) tap the Search bar and type in the name. You can also enter keywords if you're looking for an app for a specific task – for example, you could search for 'Google Calendar' and see what the App Store offers.



3 Tap an app on the Store to be taken to its page. Here you will find a summary of the app's features, see screenshots, and read what other users have to say about it. If you want to buy it, tap the price of the app. The button will turn green and read 'Buy app' (or 'Install app' if it's free). Tap again to take the plunge.

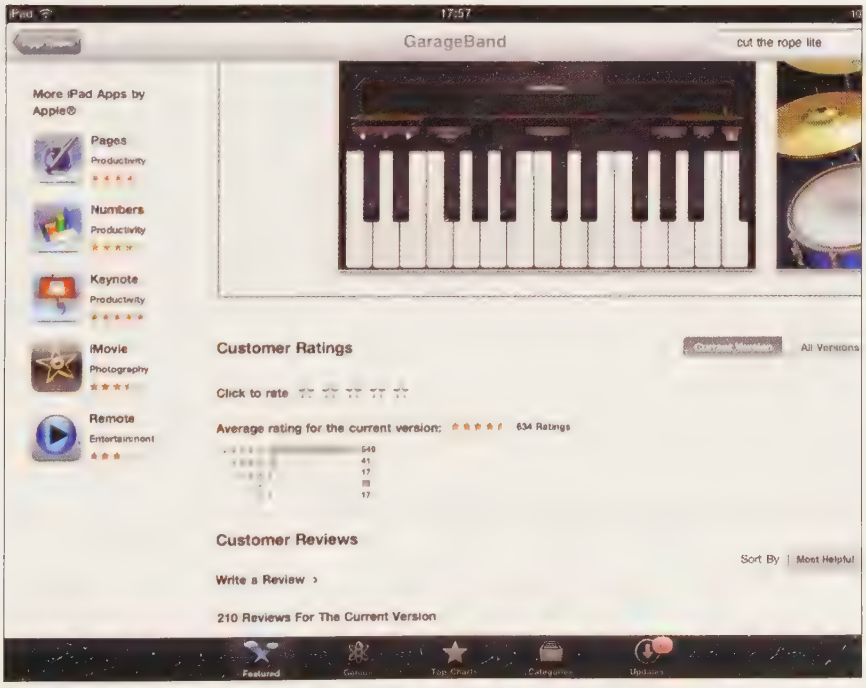
EXPERT TIP

App developers are always updating their software. Once you've downloaded an app, future updates are free. The Store alerts you to updates with a badge on the 'Updates' button, in the bottom-right of the store screen. It also puts a badge on the Store icon on your home screen



4 Now it comes to payment. If you've followed the instructions on page 29, you should already have an account, so you'll simply need to enter your password to authorise the purchase. It's worth noting that even if an app is listed as free, you will still need an Apple ID to download it.

5 The App Store will close, and you'll be taken to your home screen. The icon of the app you've just paid for will appear on your home screen, with a progress bar that indicates how much of the app has been downloaded so far. When the progress bar disappears, the app is installed and ready to use.



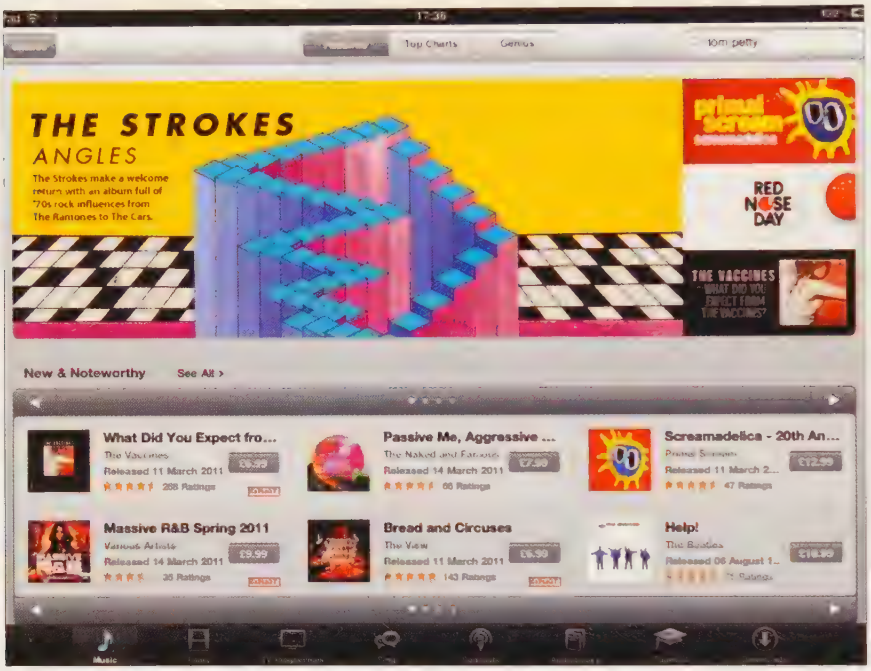
6 The App Store allows you to write reviews of apps you've downloaded, or simply contribute star ratings, to help other users make up their minds. Once you've got to know an app, simply navigate to the app's page on the Store, scroll down to the reviews, and tap 'Write a Review' at the top of the list.

WANT MORE?
Make music

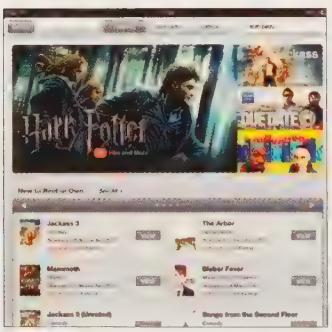
In this tutorial we're buying and downloading GarageBand onto the iPad 2. It's not just for show – head to **page 110** for the lowdown on how to use this amazing piece of software

Get playing on the iTunes Store

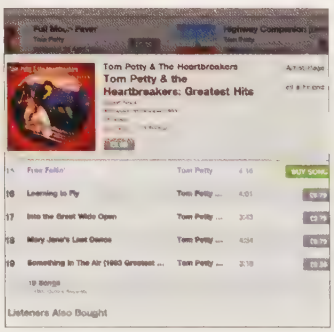
The iPad 2 is great for productivity, but it really comes into its own as an entertainment device – thanks to the colossal range of music, films and more on the iTunes Store.


THE STROKES
ANGLES
The Strokes make a welcome return with an album full of '70s rock influences from The Ramones to The Cars.
RED NOSE DAY
New & Noteworthy
See All >
What Did You Expect fro...
Passive Me, Aggressive ...
Screamadelica - 20th An...
Massive R&B Spring 2011
Bread and Circuses
Help!

1 The iTunes Store works in a similar way to the App Store, and now offers loads of different kinds of content. The home page displays new and noteworthy records, and if you scroll down you'll find things like the free single of the week and forthcoming albums to pre-order.



2 The buttons at the bottom of the screen take you to other areas of the store, where you can browse movies, TV programmes, podcasts, audiobooks, and iTunes U content to download. Tap a section of the Store and have a look around – or use the Search tool to look for something specific.

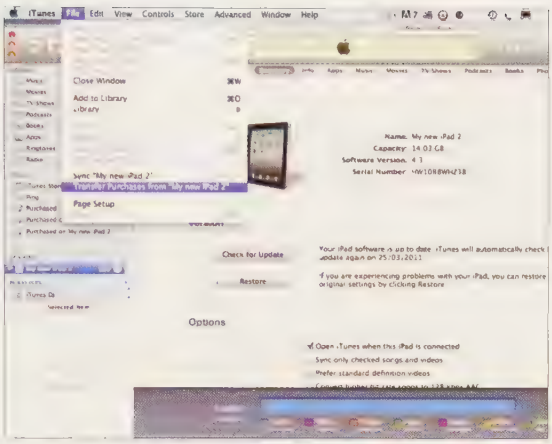


3 We've found the Tom Petty classic *Free Fallin'* for the bargain price of 59p, so we're going to snap that up. Tap the price, then tap the 'Buy now' button that appears. Enter your password and the song will download. Tap the 'Downloads' button at the bottom-right of the screen to track the progress.

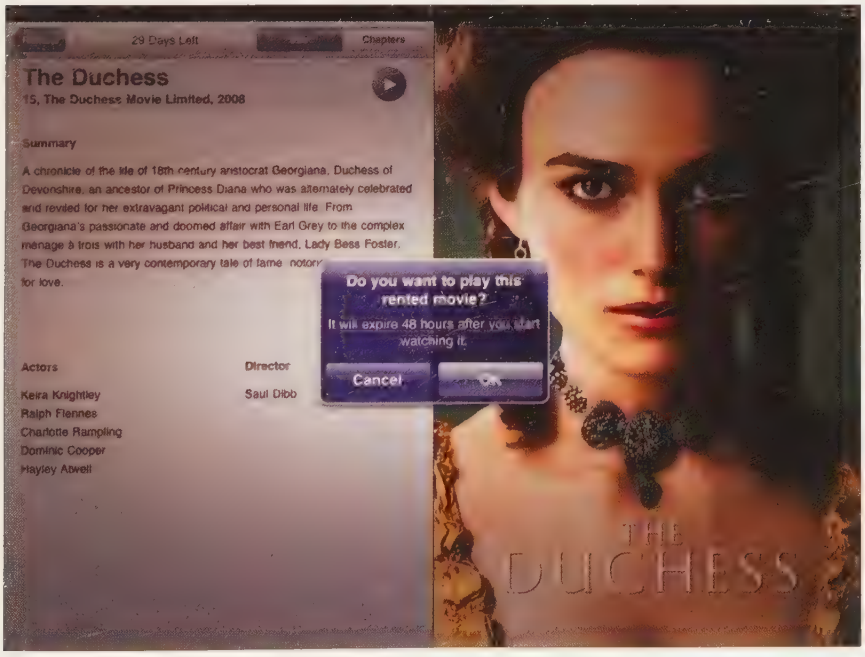
EXPERT TIP

Keep an eye out on the iTunes Store for bargains. Apple offers a range of films to rent each week for just 99p. There's also a free single of the week, usually from an up-and-coming artist.

4 Once the download is finished, tap 'Purchased' in the top-right (or simply open the iPod app). The downloaded music will appear in your iPod interface with all the music synced from your computer. It's now all yours to play and listen to on your iPad. But the file isn't locked inside your iPad forever...



5 You can transfer the music you've purchased to your computer when you next connect the two tegother. Then, if you ever lose your iPad, your music is backed up on iTunes on your computer. It also means you can copy it to other devices. In iTunes, go to File > Transfer Purchases.



6 Movie rentals work in a slightly different way. Once the movie is downloaded onto your iPad, you can transfer it to your computer and then to any iOS device. Once you download a rental, you have 30 days to start watching it. Once you start watching it, you have 24 hours to finish it before the rental expires.

WANT MORE?
Try out Ping

Check out Ping – Apple's music and media focused social network. Ping lets you share what you've downloaded with the world, so that everyone can see what great taste you have. Tap 'Ping' at the bottom of the Store home page to investigate.

Buy and read books with the iBooks app

▶ When the iPad launched, many people were excited at the prospect of reading books on the device, and ebooks have caught on quickly. Apple's iBookstore has been a huge hit, selling over 100 million books in less than a year, while Amazon's e-reader gadget, the Kindle, was the company's best-selling product of the 2010 Christmas shopping season.

The iBooks app incorporates both the iBookstore for buying and downloading books, and the interface, for actually reading books on your iPad 2. The iBookstore interface is familiar if you've used the iTunes Store and App Store that we've explored on the previous pages. Its virtual bookshelves stock everything from new bestsellers to reference books, and you'll often find classics for free or for a nominal fee. The reading element of the app is highly intuitive, so read on to get started.

VITAL INFO

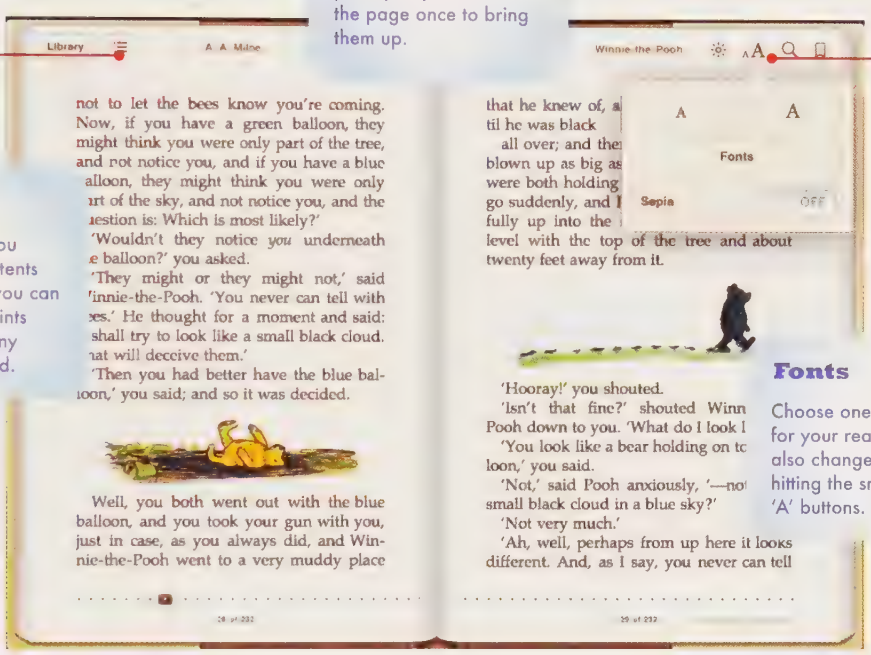
We'll show you how to download books from the iBookstore and read them in the iBooks app.

What you need
Your iPad 2
WiFi connection
An iTunes account and Apple ID
A credit card

Time required
1 hour

Tap to control

If you can't see these controls on your screen, just tap anywhere on the page once to bring them up.

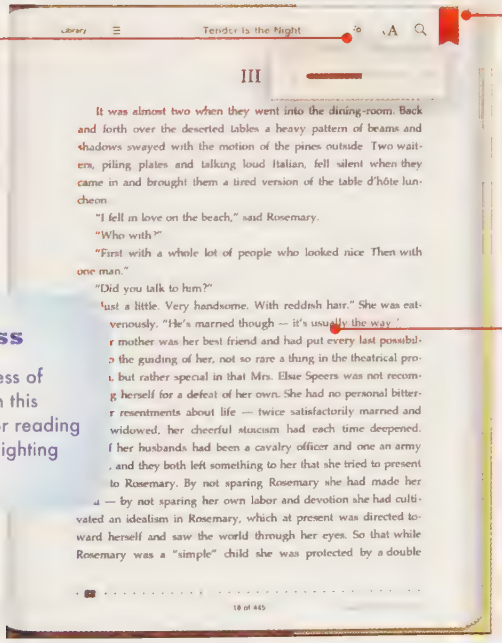

Library
A A Milne
not to let the bees know you're coming. Now, if you have a green balloon, they might think you were only part of the tree, and not notice you, and if you have a blue balloon, they might think you were only art of the sky, and not notice you, and the uestion is: Which is most likely?'
'Wouldn't they notice you underneath e balloon?' you asked.
'They might or they might not,' said innie-the-Pooh. 'You never can tell with es.' He thought for a moment and said: shall try to look like a small black cloud. at will deceive them.'
'Then you had better have the blue balloon,' you said; and so it was decided.
Well, you both went out with the blue balloon, and you took your gun with you, just in case, as you always did, and Winnie-the-Pooh went to a very muddy place
Winnie-the-Pooh
A
Fonts
Sepia
OFF
that he knew of, a
til he was black
all over; and the
blown up as big as
were both holding
go suddenly, and I
fully up into the
level with the top of the tree and about twenty feet away from it.
'Hooray!' you shouted.
'Isn't that fine?' shouted Winn
Pooh down to you. 'What do I look l
'You look like a bear holding on to
loon,' you said.
'Not,' said Pooh anxiously, '—not
small black cloud in a blue sky?'
'Not very much.'
'Ah, well, perhaps from up here it looks different. And, as I say, you never can tell

Contents

This button takes you to your book's contents page. In contents you can see the chapter points in the book, and any bookmarks you add.

Fonts

Choose one of six fonts for your reading. You can also change the font size by hitting the small and large 'A' buttons.


Tender Is the Night
III
It was almost two when they went into the dining-room. Back and forth over the deserted tables a heavy pattern of beams and shadows swayed with the motion of the pines outside. Two waiters, piling plates and talking loud Italian, fell silent when they came in and brought them a tired version of the table d'hôte luncheon.
"I fell in love on the beach," said Rosemary.
"Who with?"
"First with a whole lot of people who looked nice. Then with one man."
"Did you talk to him?"
"Just a little. Very handsome. With reddish hair." She was enthusiastically. "He's married though — it's usually the way."
r mother was her best friend and had put every last possibl
the guiding of her, not so rare a thing in the theatrical pro
but rather special in that Mrs. Elsie Speers was not recom
herself for a defeat of her own. She had no personal bitter
r resentments about life — twice satisfactorily married and widowed, her cheerful stoicism had each time deepened.
f her husbands had been a cavalry officer and one an army
, and they both left something to her that she tried to present to Rosemary. By not sparing Rosemary she had made her
— by not sparing her own labor and devotion she had cultivated an idealism in Rosemary, which at present was directed toward herself and saw the world through her eyes. So that while Rosemary was a "simple" child she was protected by a double

Set bookmarks

Tap the little bookmark icon to drop a red tab over the page. This sets a bookmark, which will appear in the table of contents so you don't lose your page.

Brightness

Edit the brightness of your screen with this slider – great for reading under different lighting conditions.

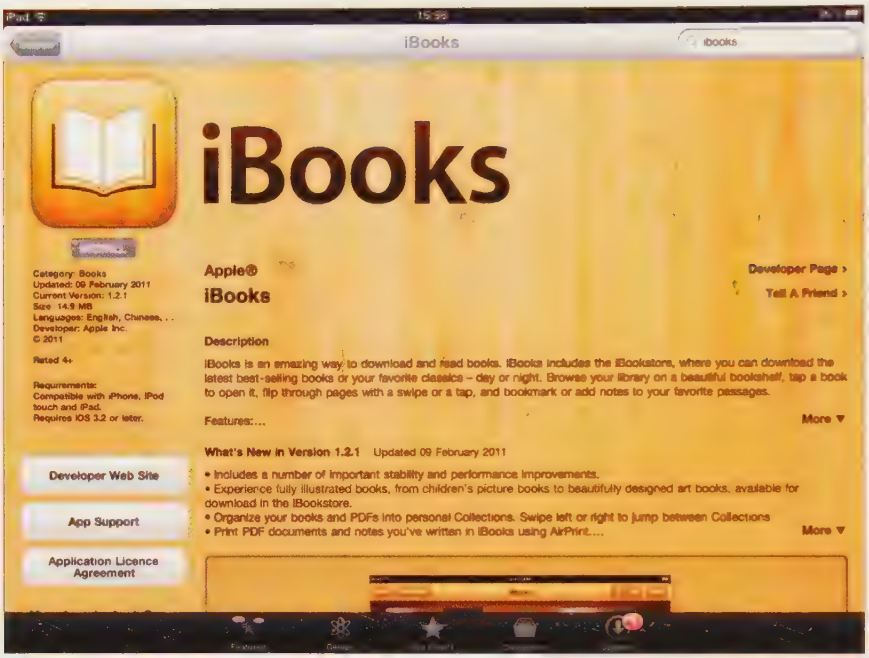
Orientation

If you hold your iPad 2 horizontally, you'll get the spread view, as above. Or, rotate it into portrait orientation to focus on one page at a time.

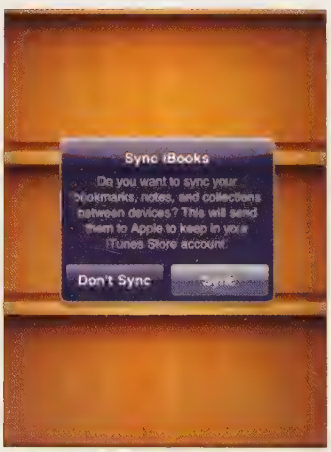
NEED TO KNOW
Page turner

To turn the page while reading, you can either swipe left and right across the screen, or just tap the left or right sides of the page to go back and forth.

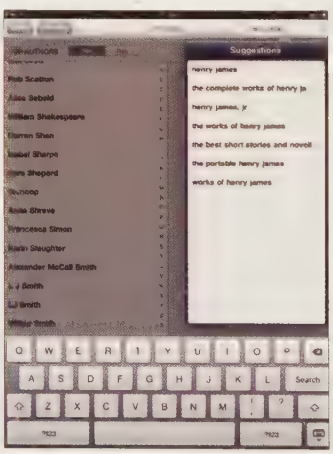
Step-by-step guide »»


iBooks
iBooks
Apple®
iBooks
Developer Page ›
Tell A Friend ›
Description
iBooks is an amazing way to download and read books. iBooks includes the iBookstore, where you can download the latest best-selling books or your favorite classics – day or night. Browse your library on a beautiful bookshelf, tap a book to open it, flip through pages with a swipe or a tap, and bookmark or add notes to your favorite passages.
Features:...
More ▼
What's New in Version 1.2.1 Updated 09 February 2011
• Includes a number of important stability and performance improvements.
• Experience fully illustrated books, from children's picture books to beautifully designed art books, available for download in the iBookstore.
• Organize your books and PDFs into personal Collections. Swipe left or right to jump between Collections
• Print PDF documents and notes you've written in iBooks using AirPrint....
More ▼
Developer Web Site
App Support
Application Licence Agreement

1 iBooks is Apple's newest online store, and it has proved an instant hit – the virtual bookshop has delivered over 100 million book downloads in just under a year. The iBooks app isn't built into the iPad 2, though, so you have to download it from the App Store. Don't worry, it's free!


Sync iBooks
Do you want to sync your bookmarks, notes, and collections between devices? This will send them to Apple to keep in your iTunes Store account.
Don't Sync

2 Once you've downloaded iBooks, open it. The app will ask if you want to sync bookmarks across multiple devices – useful if you're reading the same book on multiple devices (such as an iPhone or iPod touch). You'll then see your empty virtual bookshelf, so tap 'Store' in the top left corner to get started.



3 The iBookstore interface will be familiar if you've already played with the iTunes Store or App Store. Use the buttons along the bottom of the screen to browse. The first two give you a shop-style browsing experience, whereas the 'Browse' button offers you a more detailed search tool.

EXPERT TIP

Apple sells free iPad, iPhone and iPod touch user guides on the iBookstore. They are free and well worth keeping in your iBooks as a reference aid.

4 When you've found a book you'd like to read, you can tap its cover to read a synopsis, see related titles, and read customer reviews. You can also download a sample. Once you've decided, tap the price and then 'Buy book'. The book will download, and your view will flip back to your Library.

5 Back in the Library, you can watch your download's progress. When it's finished, you're ready to open up your book and read it. Tap the cover of the book you want to read, and get your view set up with the right font size and typeface, using the button in the top-right of the screen.

6 iBooks reads various document formats, including PDFs. When you receive an email attachment in a compatible format, you can save and view the file in your iBooks Library. To remove a document or book from your library, tap the 'Edit' button on the library screen.

WANT MORE?
Kindle app

If you've decided you like Apple's iBookstore for iPad and iPhone, you'll want to download the Kindle app for iOS devices and the Kindle for Mac app. Search the App Store for 'Kindle' to download it for free.

Setting up Mail accounts on your iPad 2

▶ Whatever your occupation, accessing your email on the go is more or less essential these days. But on a smartphone, this can be a cramped and awkward experience. Luckily the iPad 2 is absolutely perfect for it.

It's incredibly easy to set up an iPad 2 to send and receive your email. You can set up multiple accounts and arrange for all messages to arrive in one inbox, and you can do just about everything you'd want to do on a desktop email client – all from the comfort of your iPad 2.

So fire up the Mail app on your iPad and follow these simple instructions to get your email accounts connected.

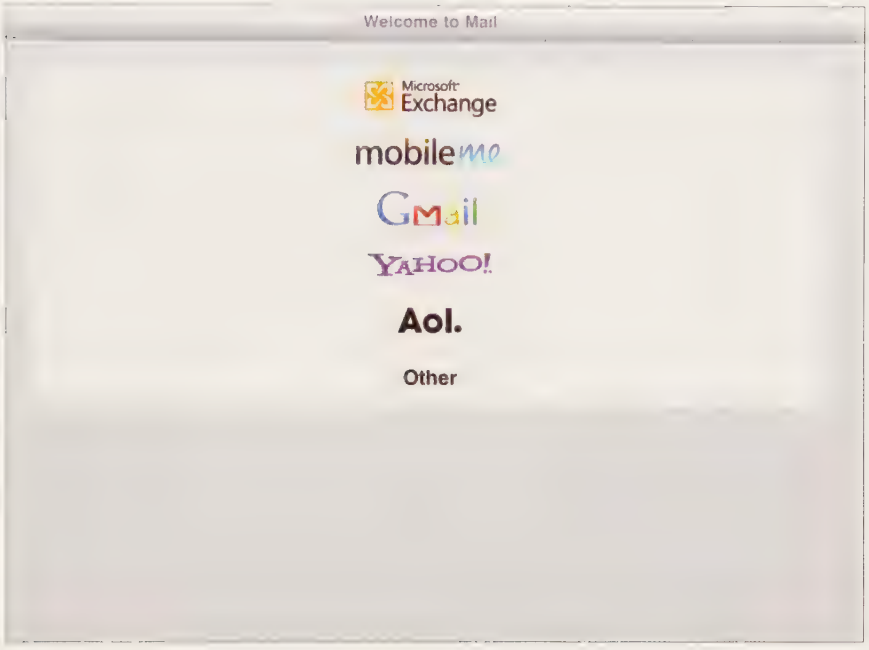
VITAL INFO

Get up and running with an email account on your iPad 2, and learn how to use the Mail app.

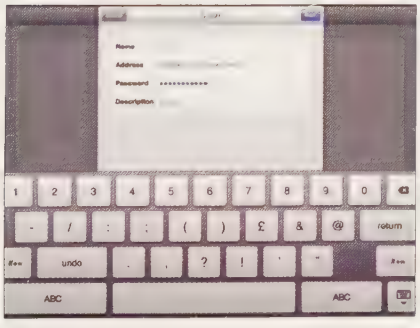
What you need
iPad 2
An email account

Time required
20 minutes

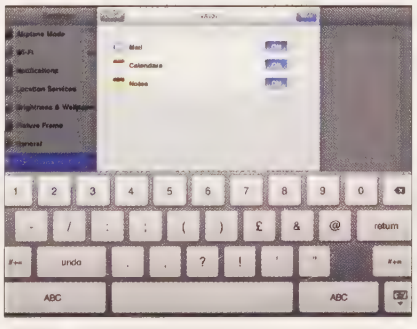
Set up your email in three steps



1 Open the Mail app from the home screen. This brings up your options for connecting to an email account. If you have a different email account the iPad 2 can handle that too. We're going to set up a Google Mail account.



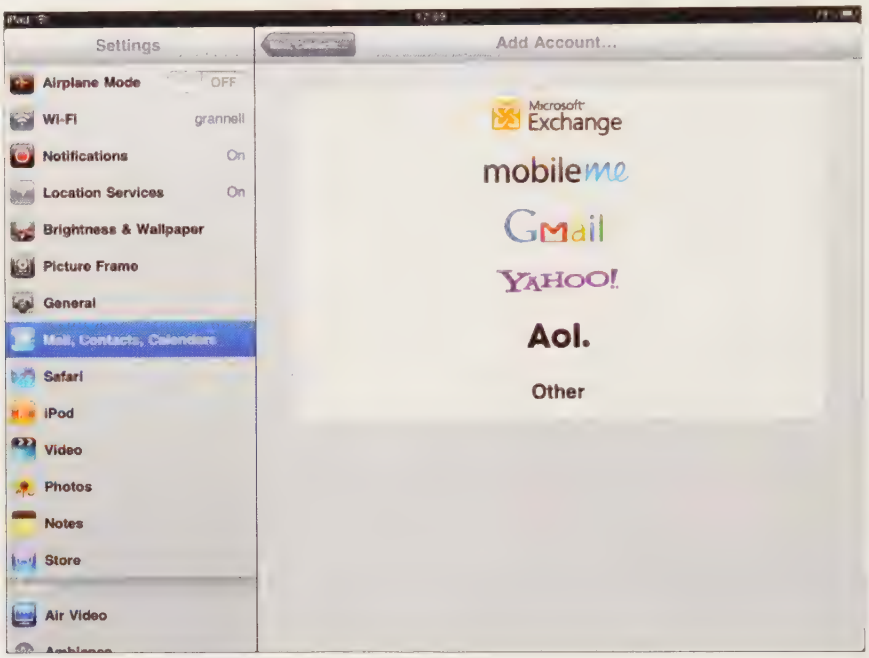
2 Enter your username and password. The process is pretty similar whether you're setting up a Google Mail, Microsoft Exchange, Yahoo! or whatever other email account you have. Just add your details and the app will verify your password.



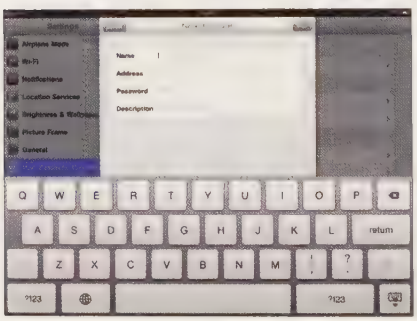
3 Once your details are verified, you'll be asked if you want to also import notes and your calendar from your Google account. Once you've made your choices, tap 'Save'. Your mail will download and you're ready to go.

How to set up a POP Mail accounts

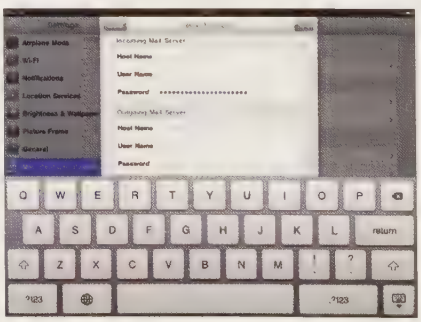
Although the iPad provides you with options to set up accounts for popular mail services, that's no good if you have your own email hosted elsewhere. Here's how to set up an email account using the mysterious 'Other' option...



1 Launch the Settings app and select 'Mail, Contacts, Calendars' from the sidebar. Under Accounts, tap 'Add Account...' and you'll see the familiar screen with a number of email options. Tap 'Other' and on the following screen, tap 'Add Mail Account'.

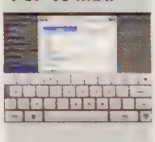


2 In the 'New Account' dialog that pops up, add the email account's sender name (Name), the email address itself (Address), the password provided to you by your email host to access the POP/IMAP service (Password) and a short description.

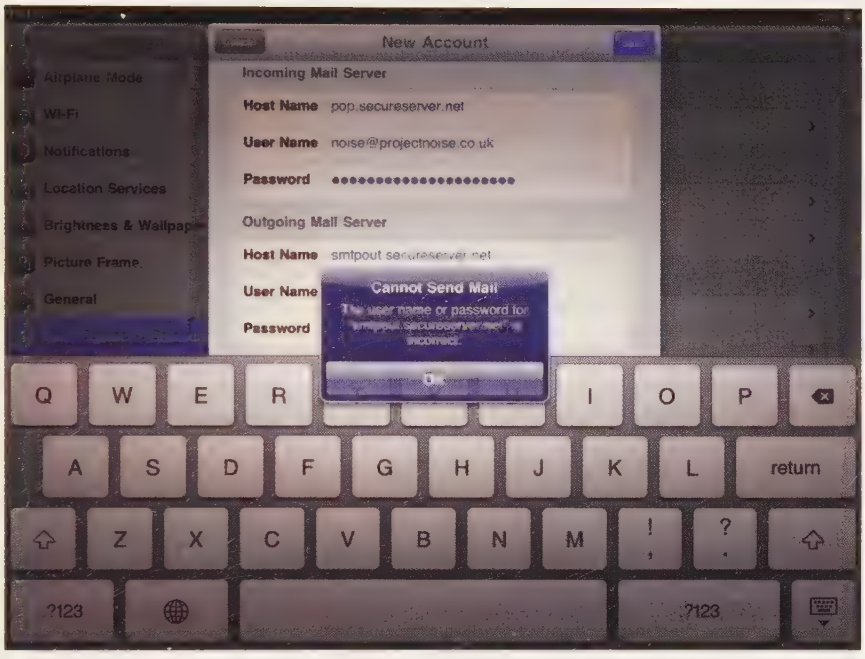


3 Tap 'Next' and select whether you're setting up an IMAP or POP account by tapping the relevant tab (if unsure, talk to your email host/system administrator). Add details regarding your account's incoming and outgoing mail servers to the relevant fields.

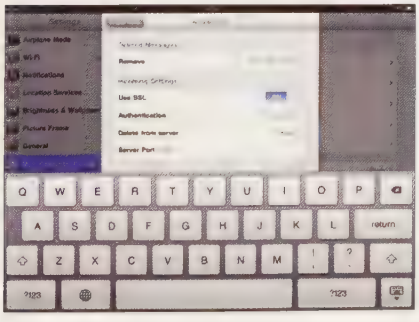
NEED TO KNOW
POP vs IMAP



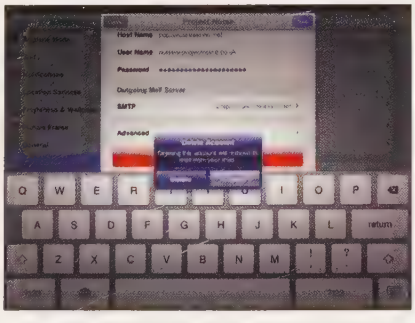
Most email accounts are either Post Office Protocol, a download-and-delete-style service, or Internet Message Access Protocol, which keeps all your email in sync with a remote server.



4 Tap 'Save' and your account details will be verified. In event of an error, the depicted dialog will appear. Should that happen, check and re-enter your details and tap 'Save' again. When successful, you'll be returned to 'Mail, Contacts, Calendars'.



5 Tap an account in 'Mail, Contacts, Calendars' to view additional settings; you can temporarily disable the account, amend server information, and scroll down, tap Advanced and define options for message deletion and authentication.



6 Within the initial settings page of an account, there's also a large and red 'Delete Account' button. Tap that and you'll see a confirmation dialog. Tap 'Delete' and the email account and its associated messages will be removed from your iPad.

WANT MORE?
Mail Sync

If you use Mail on the Mac or Outlook on Windows, don't bother setting up email on your iPad – instead, connect your device to iTunes, access the 'Info' section, check 'Sync Mail Accounts' and sync.

Personalise Mail

The iPad 2 offers countless customisation options, and the Mail app gives you ample opportunities to tweak settings so it's just right for how you want to use it. From font sizes to signatures, here's how to set put your own stamp on Mail.

Customise email

Go to the Settings app and tap 'Mail, Contacts, Calendars'. It will lead you to this screen, giving you loads of options for setting up your mail.

Tweak the preview

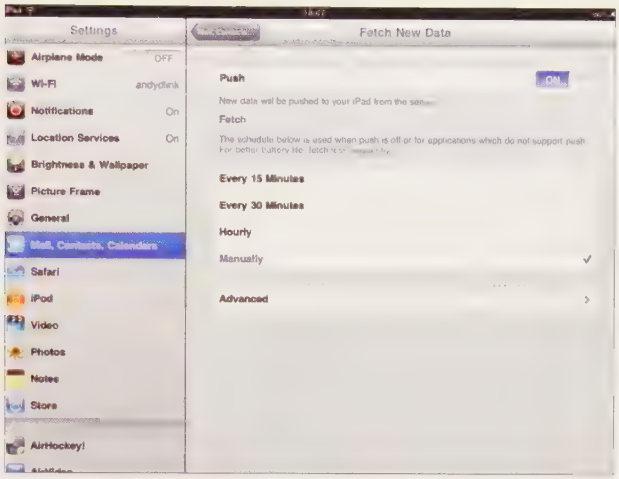
These options let you customise how your lists of emails appear. Select the number of recent messages in the list, the length of the preview, and your font size.

Organise by threa

Viewing message threads mea that all messages in a single conversation are placed in a single thread. It makes it easy to see conversations, but you can turn it off to view a list of individual messages if you pref

Copy me in

You can set to always co yourself into messages y write. This can help you keep track of messages s from your iPad 2 when y return to your desktop.



1 The iPad 2 can check for messages at regular intervals, or you can set it to 'Push' messages from the server, meaning you will be alerted of new emails as soon as they arrive.

2 The default signature reads 'Sent from my iPad', which is fine for telling your mates you've just bought one, but a bit smug the rest of the time. Personalise email sign-off in 'Signature'.

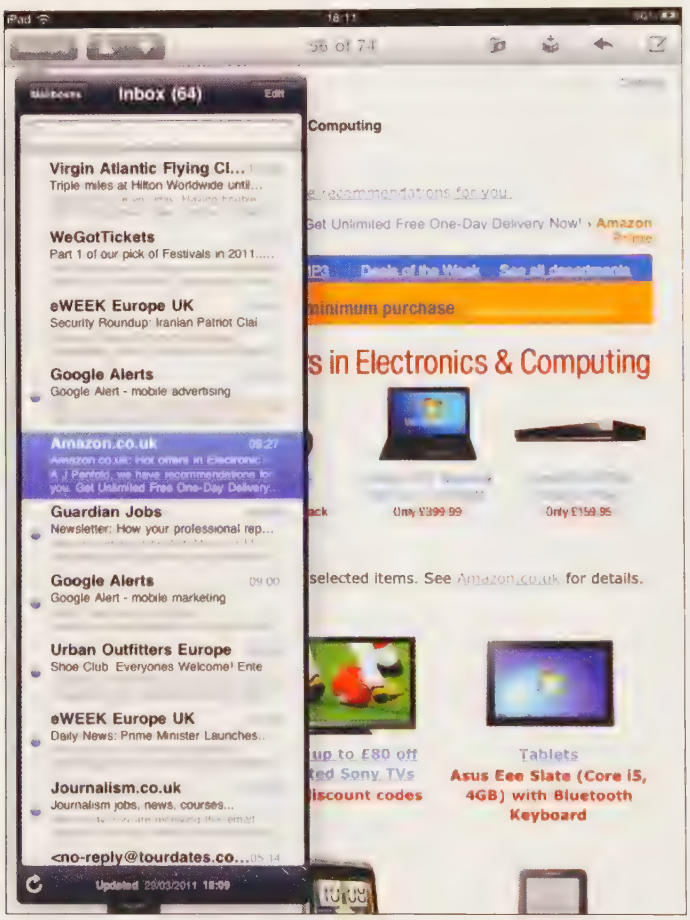
NEED TO KNOW
In-app email

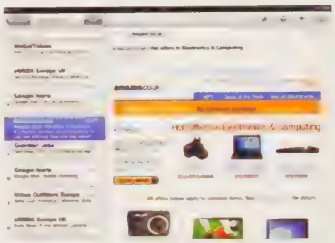
Once you've set up a Mail account, other apps can use it. For example, if you create a movie in iMovie, you can email it within iMovie from your Mail account.

Mail: Guided tour

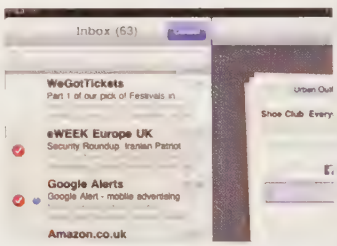
Now you're all set up to use Mail, here's a guided tour of the app. You'll be running your digital communications from your iPad in no time, thanks to Mail's easy interface and the iPad 2's portability.

1 Fire up Mail and you'll find the account you've set up. In portrait mode, you get a full screen view of your emails. Tap 'Inbox' at the top-left to see a pop-up window of your message list.





2 Turn your iPad 2 to landscape mode and you get a split-screen view, with your inbox on the left and the full selected message on the right. To remove emails from your Inbox list, tap 'Edit'.



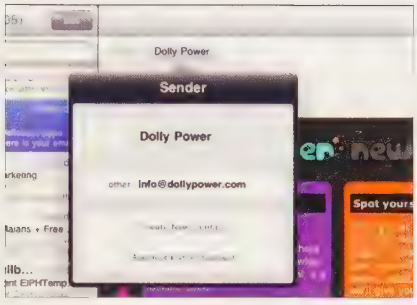
3 This allows you to 'Archive' messages, so that they no longer appear in your Inbox but will be kept in your Gmail server. Tap the circle next to unwanted messages so that the circle fills with a red tick icon, then press 'Archive'.

WANT MORE?

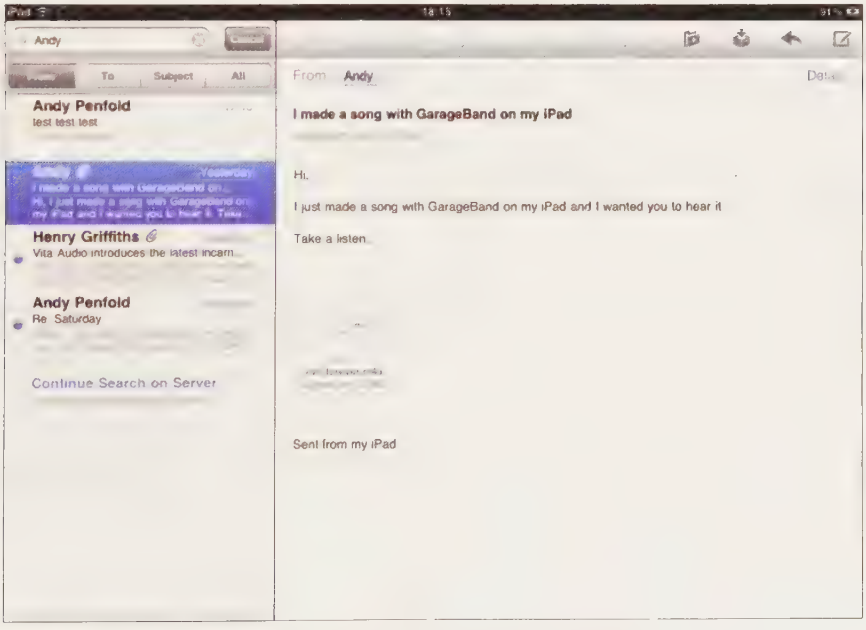
Delete vs Archive

If you want to use your iPad 2 to permanently delete email from your Google account, go to Settings > Mail, Contacts, Calendars and tap your Gmail account. You can turn Archiving off on the next screen – this turns Mail's 'Archive' button into a 'Delete' button.

4 Time to get emailing. Press the curved arrow in the top-right to reply to a message, or the pen and paper icon in the corner to write a new email. If you've synced contacts from your computer, press the '+' sign in the 'To' field to choose a contact.



5 If you've received a message from someone new, select the message and tap that person's name at the top of the message. You can then easily create a contact in your Contacts app straight from Mail.



6 Depending on their file size, attachments do not always download automatically. If an incoming email has files attached, you may need to tap them to start the downloading process.

EXPERT TIP

Download the iBooks app from the App Store (it's free), and you can open many attachments from Mail n that app You can also save attached photos into the Photos app – just tap and hold the picture in Mail

Get organised with the iPad 2's Calendar app

▶ Thanks to its built-in productivity apps, the iPad 2 is a fantastic organisational device. Mail keeps you connected, while Calendar keeps you organised. The iPad 2's Calendar app can be synced with Outlook on a PC and Mail on the Mac, and it has limited support for online calendars such as Google Calendar. It also works brilliantly as a standalone organiser.

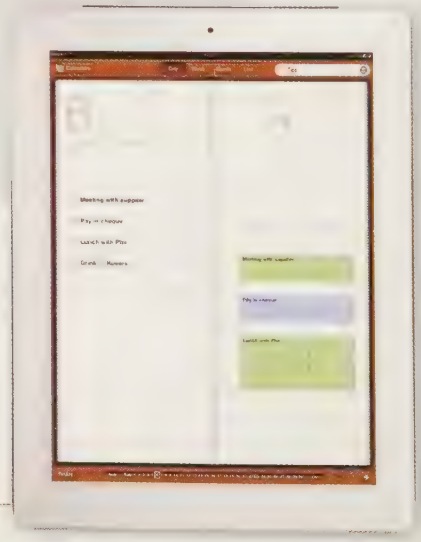
The interface is designed like a real-world diary, but it's far more useful than your bog standard paper diary. Calendar can remind you with audio and visual alarms when an appointment is coming up, and it's easy to manage events using its many onscreen tools. Here's how to set up and use Calendar on the iPad 2.

VITAL INFO

If you so desire (and you nearly always have your iPad with you), the Calendar app can be used as your main diary. Otherwise, you just need your PC or Mac and your iPad

What you need
iPad 2
Some appointments

Time required
15 minutes



The main event

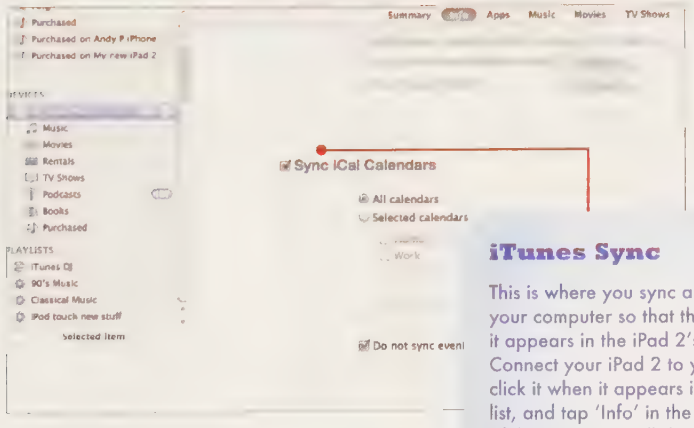
Here's your main Calendar interface, in Month view. You can change how you view your calendar using these buttons at the centre-top of the screen.

Plus points

As with most iPad interfaces, you add an entry by tapping the '+' sign. In the case of Calendar, this brings up a window for you to create a new event.

Today's the day

Skip to view the current day by tapping 'Today'. You can also skip to other points in the calendar using the bar at the bottom of the screen.



iTunes Sync

This is where you sync a calendar from your computer so that the information in it appears in the iPad 2's Calendar app. Connect your iPad 2 to your computer, click it when it appears in the source list, and tap 'Info' in the bar at the top of the screen. Scroll down to 'Sync iCal Calendars' and tick this box (this is on a Mac; on a PC you'll have the option to sync from Outlook).

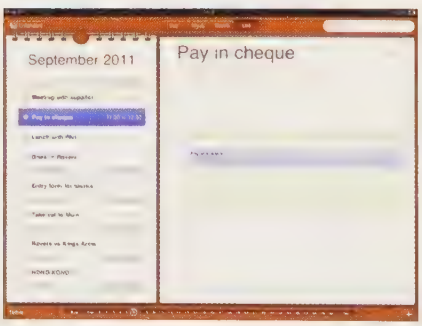
EXPERT TIP

Even the Calendar's icon on your home screen has some neat functionality built in - it updates every day, so it always displays today's date

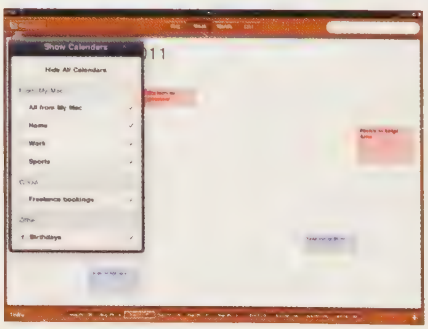
Using Calendar

Get to grips with the elegant Calendar app, and you'll never need to turn to a paper diary ever again. Here are six steps to managing your appointments on your iPad 2.

1 When you first fire up Calendar it will present you with day view. This is ideal for busy people as it presents you with an hour-by-hour view of what you need to do and where you need to be.

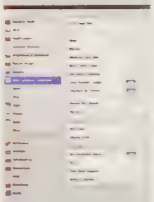


2 Month and Week views are pretty self-explanatory, but the List view gives you a kitchen calendar-style summary of your appointments on the left, and a regular Day view on the right – great for a quick overview of your commitments.

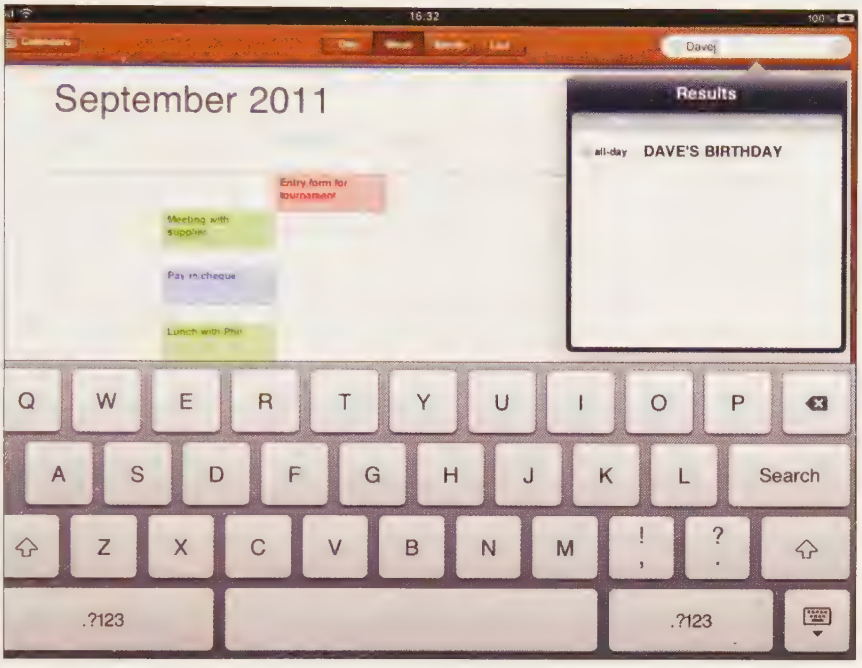


3 Tap 'Calendars' in the top-left to bring up a list of your calendars. You can set up calendars for home, work, or your team's sports fixtures, for example. Tap the calendars in the list to toggle them to visible or invisible.

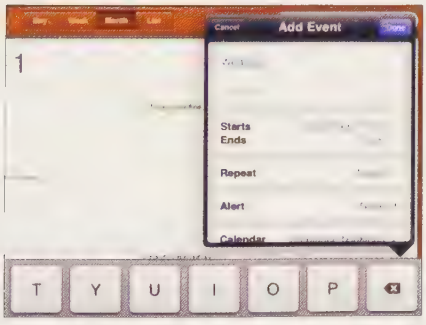
NEED TO KNOW
Time zones



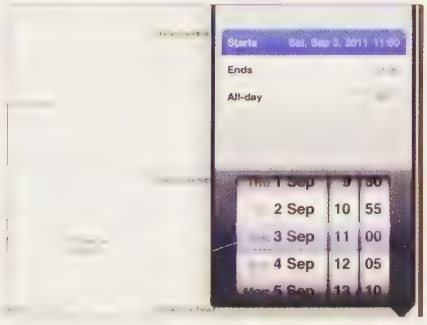
If you're setting alerts and events for when you are travelling, you will want your alerts to appear at your destination's local time. To make that happen, open the Settings app, and go to Mail, Contacts, Calendars. Scroll down to 'Calendars' and you'll see an option to set your time zone.



4 Tap 'Search' in the top-right to scan your calendars for events – handy if you can't for the life of you remember when somebody's birthday is. Results appear in a pop-up; tap a search result to skip right to it.

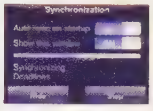


5 Tap the '+' sign to add an event. Use the on-screen keyboard to enter the event's details. Remember to set a 'Repeat' if it's a recurring appointment, and enter an alert time if you need a reminder.



6 Tap the time in the event creator window to set the time. You also have the option to set an event as 'All-day'. When you've finished entering your event, tap 'Done' on the pop up window and it will appear in your Calendar.

WANT MORE?
CalenGoo



If Calendar's Google Calendar support doesn't cut it for you, try the £2.99 CalenGoo app. It's not as good-looking as the built-in Calendar, but it does sync with your online Google Calendar every time you open the app

Photo fun with the iPad 2's cameras

▶ The iPad 2 comes with three camera-based apps: the basic Camera, Photo Booth, and FaceTime.

The latter is a big draw. The ability to video chat using the iPad 2's lovely screen is a great feature, and Apple's implementation works very well indeed. It's a WiFi only feature, though.

Chances are Photo Booth will be the first thing you turn to when you turn on your iPad 2. It's certainly the case when anyone buys a Mac.

Photo Booth is a webcam app that lets you take pictures with the iPad 2's front-facing camera. It's an excuse to take pictures of yourself using your iPad 2, and apply some of the cool and funny effects to either your self-portraits or pictures of the outside world taken with the iPad 2's rear-facing camera.

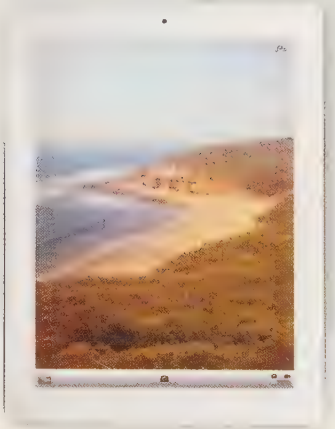
The Camera app lets you take pictures and video using either of the two lenses. Here's your guided tour of each app.

VITAL INFO

This tutorial shows you how to use the iPad 2's built-in camera apps, Camera, Photo Booth and FaceTime.

What you need
Your iPad 2
Your best smile

Time required
1 hour

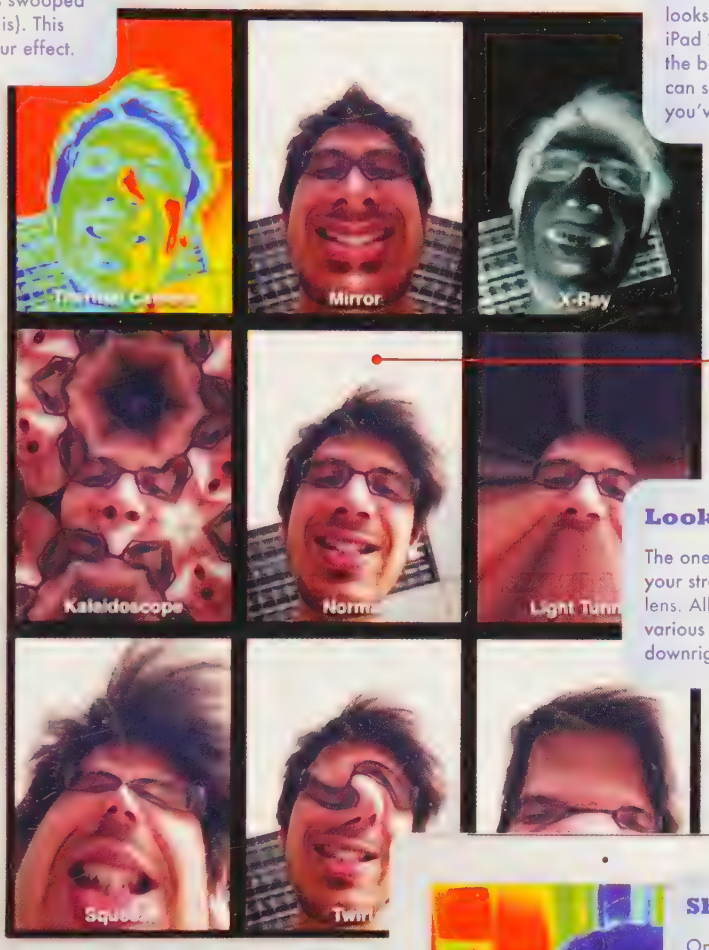


Special effects

Fire up Photo Booth and you'll see this screen (after the red curtain animation has swooped past the display, that is). This allows you to pick your effect.

Camera lens

Here's the camera lens that looks at you as you look at your iPad 2. The other camera is on the back of the iPad 2 – you can switch between them once you've picked your effect.



Look at me

The one in the middle is your straightforward camera lens. All the others give you various creative, spooky, and downright silly effects.

Shutter button

Once you've picked your effect you'll be taken to the main camera screen, where you can take a picture using the shutter button at the bottom-centre of the screen.

Choose another

Press this button to be taken back to the previous screen and choose another effect.

Lights, Camera, action!

The Camera app is a little more serious than Photo Booth. It lets you take photos and videos, which you can edit in the iPad using apps like Apple's incredible iMovie.

WANT MORE?

Shot focus

In Video mode, you can edit the area of focus while you shoot. Just tap a different part of the screen to change the focal point of the shot

1 Fire up the Camera and this is what you'll see. By default it will use the rear-facing camera and it will be set to take still shots. Press the 'Shutter' button – in the middle at the bottom of the screen – to take a picture.

2 Both lenses have 'tap to focus' features. This means you can tap anywhere on the screen to focus the lens – this allows you to take shots that are a little more creative. Tap a second time to change focus.

3 The toggle switch on the bottom-right of the screen lets you swap between video shooting and still shooting. Tap it and the shutter button becomes a red 'Record' button. Tap to focus works in video mode, too.

4 Switch the lenses by tapping the icon in the top-right of the screen. Just as it does in Photo Booth, the screen will animate to show you it's flipping the view from the front-facing camera to the rear-facing camera.

5 To view the pictures you've taken, tap the square in the bottom-left of the screen. This will take you to the last picture or video that you took. You can swipe left or right on the screen to view your images.

6 Alternatively, tap 'Camera Roll' in the top-left of your screen to view shots as thumbnails. Tap the arrow icon (top-right) and then tap image thumbnails to select images to be emailed, copied, printed, or deleted.

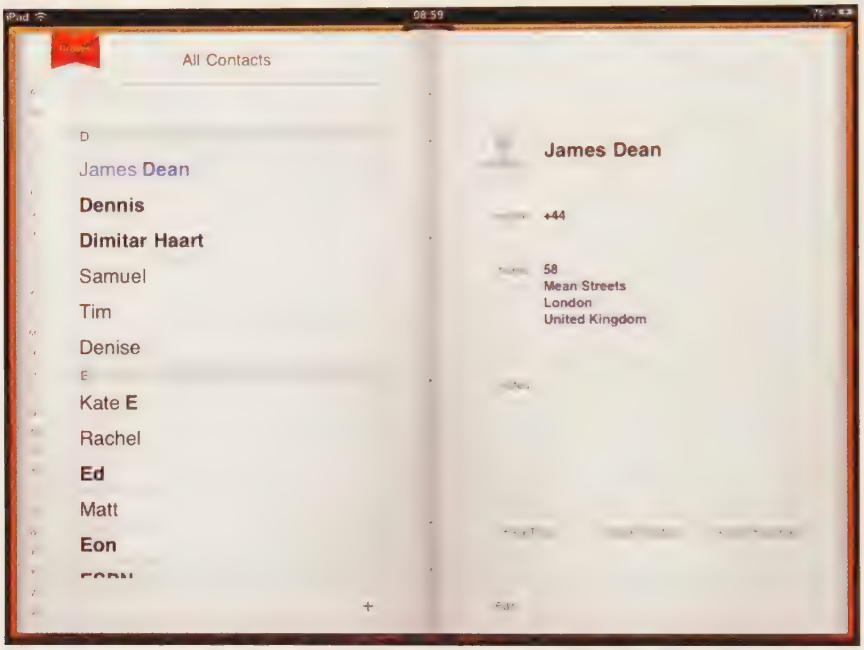
WANT MORE?

Learn iMovie

Turn to **page 122** for your eight-page guide on how to edit your videos wherever you are using Apple's iMovie filmmaking app

FaceTime your friends

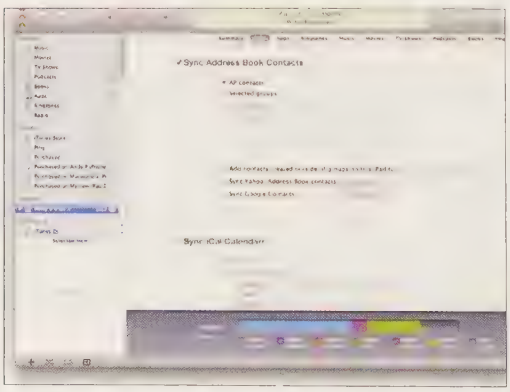
The other headline feature that the camera offers is FaceTime video calling. It's an incredibly impressive system – here's how to place a FaceTime call on your iPad 2. Make sure you're connected to WiFi and see who's online.



1 iPhone 4 phone numbers are automatically recognised on FaceTime, you just have to turn it on in Settings > Phone. Here's our contacts book – this contact has an iPhone 4 and so his record appears with a FaceTime button. Press it to FaceTime call straight from the Contacts app.

NEED TO KNOW
Email address FaceTime

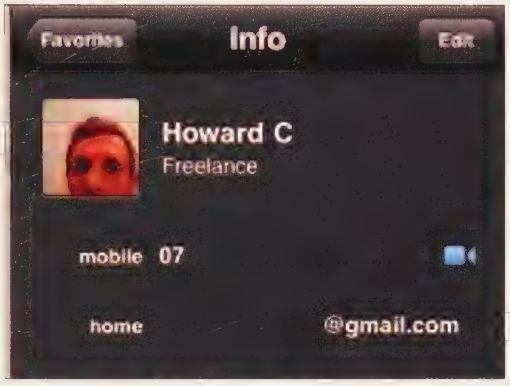
When you first use FaceTime, you'll need to register your email address. Follow the onscreen instructions – you'll need your Apple ID that you use on the iTunes Store.



2 Your FaceTime contacts are set up automatically, so it's a good idea to have your contacts on your computer on Mail or Outlook and sync your contacts book from iTunes. Do this on the 'Info' page on the sync screen, when your iPad is plugged in.

3 Back on the iPad 2 – starting the FaceTime app turns on the front camera and shows you a full list of contacts. If you try to call a non-FaceTime contact it won't work – you can only call people on an iPhone 4, Mac, iPod touch or iPad.

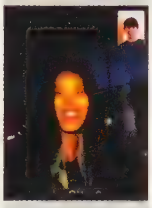
4 As not all of your contacts will have compatible devices, it's a good idea to add those that do to your 'Favorites'. To do that, simply tap the contact and tap 'Add To Favorites'. That way all your FaceTime friends will be in one place.



5 Tap a phone number or email address on a contact entry (or simply tap their name if the contact is in your 'Favorites'), and you'll be connected. It makes a peeping sound while it connects, and can take a while.

6 And there you have it – free video chatting over WiFi. Tap the camera-flip icon to show your friend what you're looking at – great for sharing with your friend when you've got a load of people in the room. To hang up, press 'End'.

NEED TO KNOW
World series



To test FaceTime's mettle, we called a friend who was using a WiFi connection in a bar in internet-restricted Beijing, China. It looked very blurry, but it connected first time!

Explore the Internet with Safari

▶ When Apple launched its first touchscreen device, the original iPhone, the mobile web browser was the feature that really blew people away. It was the first time true representations had appeared on a mobile web browser, and the iPad 2 is the best device so far for mobile viewing of web pages.

The new hardware helps – web browsing is now faster than ever thanks to the dual-core A5 chip, and the Safari browser now benefits from printing support thanks to AirPrint. Browsing the Internet on the iPad 2 is one of the device's key functions – so fire up Safari and get started.

VITAL INFO

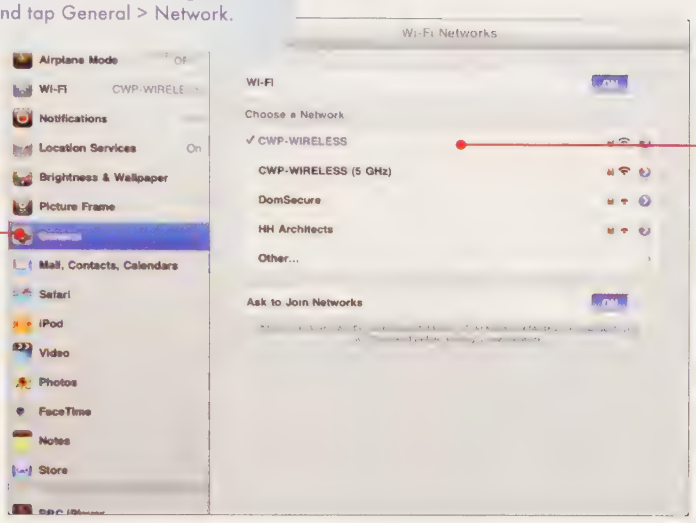
We show you around the Safari browser – the most complete mobile web browser out there
Browse the Internet and personalise the app so you can access your favourite sites within a few taps

What you need
Your iPad 2
A WiFi Internet connection – or 3G Internet connection if you have an iPad 2 WiFi + 3G model

Time required
20 minutes

Set up WiFi

If you're on a 3G iPad 2 and you have 3G signal, you should be on the Internet as long as your SIM card is inserted. If you want to connect to WiFi, go into Settings and tap General > Network.



Choose your network

Tap 'WiFi' and you'll see a list of available WiFi networks. Tap one to join it. Most WiFi is locked these days, so you'll need to log in with the password. If you're at home this is the same password you use on your computer.

Explore the Internet

The Internet on the iPad 2 looks just like it does on your computer. Tap either the 'Google' box or the main URL box in the taskbar to enter a site you already know.

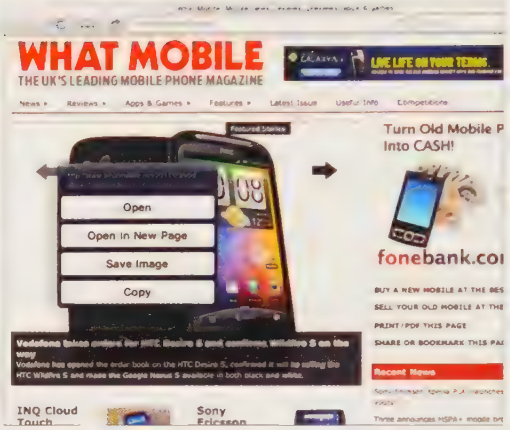
Touch navigation

Double-tap a column of text or a picture on a page to zoom in so the item fills your screen. You can also zoom in and out by pinching and stretching your fingers on the screen.

WANT MORE?
360 Web Browser

If Safari is not to your tastes, why not try 360 Web Browser (59p)? It's an app that offers a different browsing experience, as well as a Download Manager and Firefox syncing. It's available through the App Store.

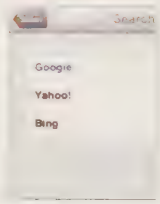
1 Fire up Safari for the first time and you'll see a blank page. Tap the URL bar to enter the address of a website to visit. Or use the Search bar (which is marked Google by default) to search for something.



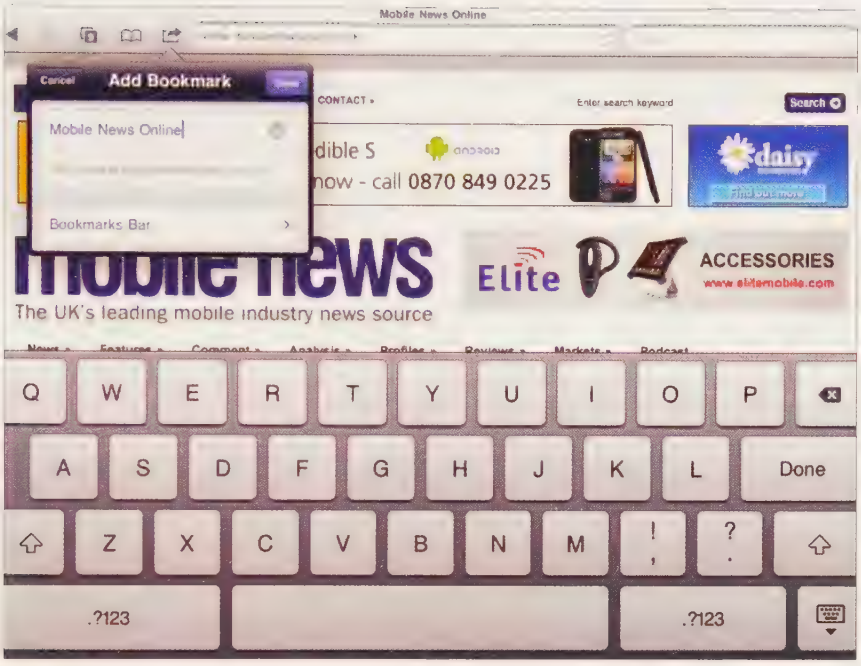
2 Tap links to navigate to them. Tap and hold a link to see options to open it in a new page or copy the URL for pasting elsewhere. You can also tap and hold pictures to copy or save the image to your Photos library.

3 To open a new tab, tap the icon in the top bar that looks like one square laid over another. Then pick 'New Page'. Tap this icon at any time to navigate between your various open pages.

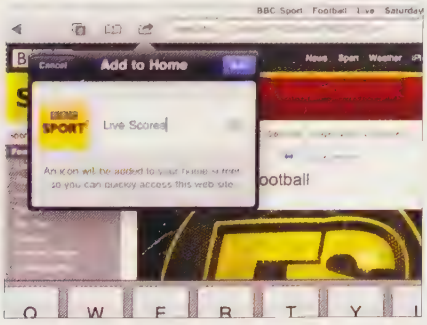
WANT MORE? *Search preferences*



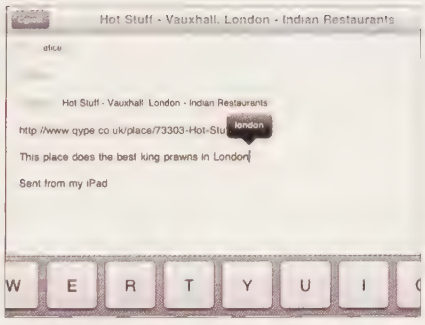
In Settings > Safari > Search engine, you [redacted] between using Google, Yahoo!, or Bing as your default option in Safari's Search bar.



4 To bookmark a page, tap the arrow icon at the top and tap 'Add Bookmark'. Once you've got some set up, tap the open book icon to navigate between your bookmarks.

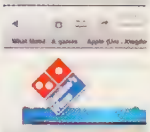


5 You can also set up a web bookmark on your home screen. To do this, tap the arrow icon then tap 'Add to Home Screen'. Name the bookmark, and hit 'Add'. The icon will appear on your Home Screen.


Cancel
Hot Stuff - Vauxhall, London - Indian Restaurants
Hot Stuff - Vauxhall, London - Indian Restaurants
http://www.qype.co.uk/place/73303-Hot-Stu
london
This place does the best king prawns in London
Sent from my iPad
W E R T Y U I

6 Finally, you can email a link to a friend from within Safari. Hit the arrow, then 'Mail Link to this Page'. This will create an email message from within Safari – type a custom message if you wish and hit 'Send'.

NEED TO KNOW
Bookmarks bar



In Settings, you can select to 'Always Show Bookmarks Bar'. This means you can set up Safari to have bookmarks across the top of the Safari display, giving you quick access to favourite sites.

Using the iPod app to play media

▶ The iPod changed music-listening, now it's an app inside every iOS device, including your iPad 2. The app gives you all the tools you need for music, podcast and audiobook listening. It features a search function that lets you find your music fast; and Apple's powerful AirPlay system that lets you output your music via an Apple TV, AirPort Express-connected home stereo system or any AirPlay-capable device. Simple controls make your iPad iPod easy-to-use. There are five music categories for easy navigation of your media: Songs, Artists, Albums, Genres, and Composers. The amazing Genius function puts together music playback sessions for you. And you can flip through your full-size album art just as you would flip through CDs – it's great, and Home Sharing brings even more music to you.

VITAL INFO

We're going to help you make and edit Playlists on your iPad, and show you how to power-manage music playback in full-screen view.

What you need:
iPad
iPod App
PC/Mac with iTunes collection
WiFi network

Time required
10 minutes

Find music fast

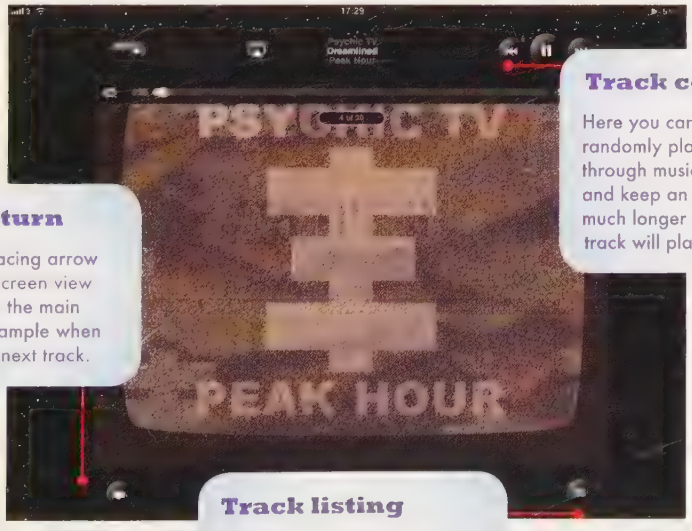
In a hurry? No problem: just tap the artist name, song title, album name or composer into the search bar here for instant results.

Music menu

All your media is accessed via the left hand Library menu. Here you can access your podcasts, audiobooks, music and playlists.

Music selection

Your music collection looks like this in Album view. Scroll up and down to explore, and swap views using the controls below the collection.



Track control

Here you can tell iTunes to randomly play tracks, run through music sequentially, and keep an eye on how much longer the current track will play.

Sight return

Tap the left-facing arrow to leave full-screen view and return to the main menu, for example when selecting the next track.

Track listing

This button when tapped gives you a list of all the tracks on the album you are currently playing, so you can switch to another song as you please.

NEED TO KNOW
Genius

Genius is what it says on the can. Apple's recommendation technology will create a playlist based on your current track, just tap the icon that looks like an atom. To save a playlist? Tap the 'Save' icon.

Media studies

Tap to choose, tap to play, swipe to navigate and play your music using your headphones, Bluetooth headphones, AirPort Express or an AirPlay system – iTunes on the iPad is a great way to listen to music. Now we're going to help you get familiar with the app using some of its extra tools.

Music
Podcasts
Audiobooks
3months
5 Months
ArcADEFIRE
Camille O'Sullivan
Divided By Night
FaveFaves
Now Playing:
Aerosmith 2 albums, 4 songs
Antony & The Johnsons 1 album, 10 songs
Antony and the Johnsons 1 album, 1 song
Arcade Fire 3 albums, 23 songs
Bark Psychosis 1 album, 9 songs
Benjamin Zephaniah, Eliza Carthy, Simon Emmerson &... 1 album, 1 song
Bill Wyman 1 album, 1 song
Billy Bragg, Eliza Carthy, Simon Emmerson & The Youn... 1 album, 1 song
Black Grape 1 album, 9 songs
The Black Keys 1 album, 1 song
Bob Dylan 1 album, 1 song
Camille O' Sullivan 1 album, 14 songs
The Charlatans 1 album, 10 songs
Songs
Artists
Albums
Genres
Composers

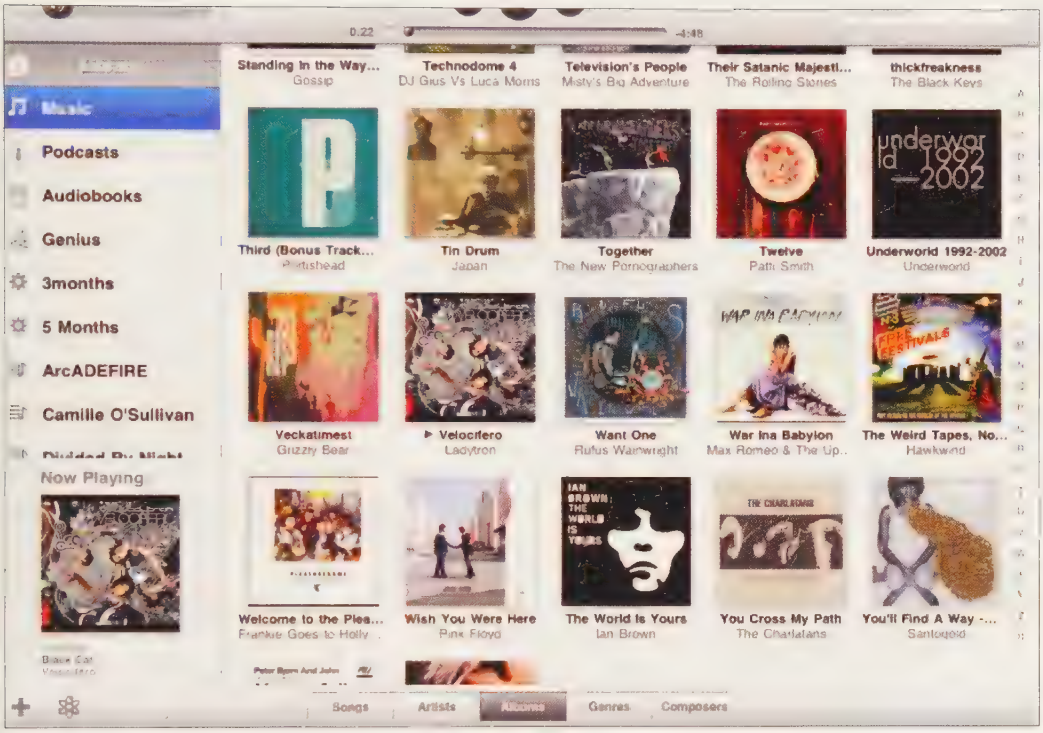
NEED TO KNOW
Home Sharing

Home Sharing lets you access iTunes music libraries streamed from other computers, if you have permission. Just click on Library for this dialogue and more music.

1 Playlists are selections of tracks that you think work well together. You can use your iPad to create these. To start a new list, click the '+' icon at the bottom left of the screen, you'll be asked to name the Playlist.

2 Once you name your Playlist the next window lets you add songs to the list. As songs are added they grey out. Tap the Sources button to access podcasts and songs in other Playlists. Tap 'Done' when you're finished.

3 When you've finished you'll have you own lovingly-crafted collection of tracks. You can add new songs and edit existing lists by selecting them and tapping the 'Edit' button. Remove tracks by tapping the Red button by track name in Edit view.

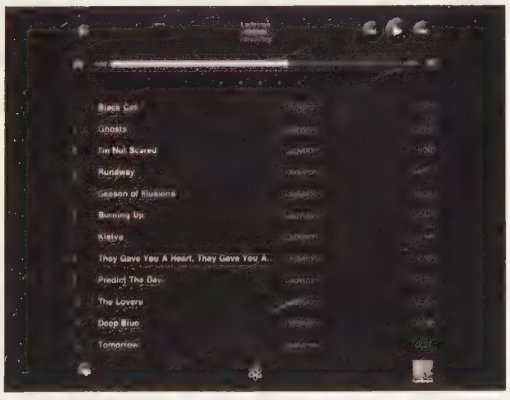


WANT MORE?
Shazam

If you love music you'll love Shazam, which lets you use your iPad to identify any music you hear playing as you go – an iPad essential.

4 When you have music playing the relevant album cover shows in the lower-left box. Tap on the box and you get full-screen view, tap once on this and the command menu overlay appears, with a series of commands you can use.

5 Most of the commands are self-explanatory, but those in the narrow strip underneath the track name are worth exploring. Tap on the squiggly arrows to the right and your album or playlist plays in random order. Tap it again to return to sequential order.



6 To the left of the narrow strip is another arrow icon. Tap this to set your track up to repeat. Tap it again to switch repeat off. Tap the lower right icon to enter album track view, which displays and lets you tap to play tracks in the current album.

Bonus tips

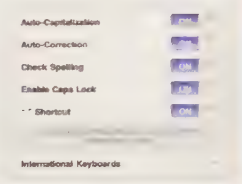
Your iPad 2 should now be all set up. Before you move on, here are some handy tips that'll make using it that much easier...

Keyboard slides

To quickly type numbers, brackets and punctuation, you can tap and hold the '.?123' button, slide to the character you want, then lift your finger. The keyboard will snap back to the main qwerty keyboard.

Keyboard holds

Can't find a way to type accents on letters? Simply tap and hold the letter you want to accent, and the options will pop up. Now you can write 'Français' and 'café'. You can also hold '?' to bring up double-quote marks.



Keyboard settings

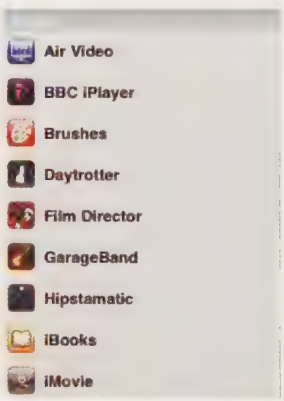
Go to Settings and tap General > Keyboard. Here you can toggle preferences such as spell checking and caps lock on and off. If caps lock is on, you turn it on when typing by double-tapping the shift button.

Notifications

Got an app that keeps peeping at you? Can't find a way to turn it off? Go to Settings > Notifications. You'll see a list of all the apps that have the capability to bother you, and you can toggle them on and off as you see fit.

Apps with Settings

Can't work out how to do something in an app you've downloaded? Many apps have additional settings in the iPad 2's Settings app. Open Settings and scroll to the bottom of the list to see what app settings you can edit.

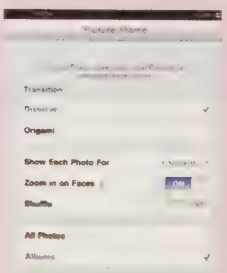


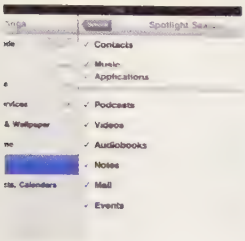
URL shortcuts

When typing a URL in Safari, hold down the '.com' button to bring up options to enter '.co.uk', '.org', '.net', and a load of others.

Photo frame

Did you know your iPad 2 is also a digital photo frame? Go to Settings and tap 'Picture Frame'. Here you can set slideshow preferences and decide what photo albums the picture frame will show. Then, tap the flower icon on your lock screen to start your slidehow.



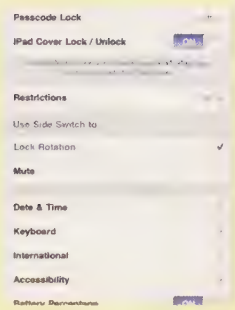


Spotlight preferences

It's possible to edit the order in which search results appear on the Spotlight screen, so you can make it most useful for the kinds of things you search for. Go to Settings > General > Spotlight Search. You can toggle items on and off, and drag the order of them by grabbing the list icon on the right of each item.

Change wallpaper

If you're bored of the default water droplets image on your iPad 2's screen, go to Settings and tap 'Brightness & Wallpaper'. Here you can pick one of Apple's lush built-in images, or choose one of your own snaps from the Camera Roll or Photo Albums.

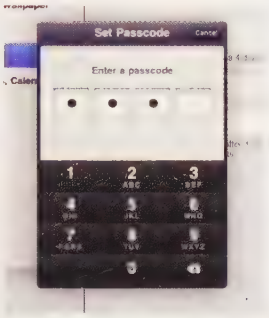


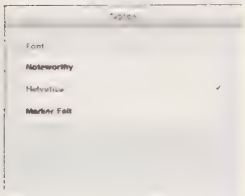
Hardware switch

The switch on the right side of the iPad 2 can be used for one of two things – as a mute switch or as a rotation lock. By default, it's a rotation locker – to change it, go to Settings > General. Make your selection where it says 'Use Side Switch to:'.

Privacy passcode

You can end up with a lot of personal information on your iPad 2 – so it would be very bad if it got nicked. Protect your data with a passcode that needs entering every time you wake it – go to Settings > General > Passcode Lock. This gives you a load of options for setting up a private PIN.





Notes font

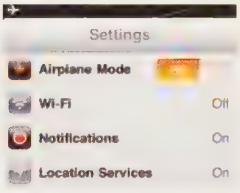
If you use Notes, you might be a little embarrassed by the awful cartoony font it uses. Thankfully, you can change it. Go to Settings and tap 'Notes'. This gives you a choice of three fonts, although Helvetica is the only non-awful one.

Restrictions

If your kids like to play on your iPad 2, it's possible to set restrictions so they don't end up listening to your Eminem albums or accidentally maxing out your credit card on the App Store. Go to Settings > General > Restrictions to be presented with a myriad of control options.

Screengrab

If you want to take a picture of your screen, press the home button and the sleep/wake button together. The screen will flash and the screengrab will appear in your Photos app. Handy for snapping maps for offline use or making a note of something you've found online.



Airplane mode

Want to watch a movie on a plane but the captain keeps telling you WiFi devices have to be turned off? You can put the iPad into 'Airplane mode' – this disables all connectivity features so you can tell the air hostesses to get off your back.

Top 25 iPad accessories

Accessorising your new iPad 2 is half the fun of buying one, and there's a huge selection of gadgets, gizmos and add-ons to choose from. We've picked out 25 of the best accessories out there to boost your iPad 2 experience.

Apple iPad 2 Smart Cover

Apple
store.apple.com/uk
Polyurethane – £35; Leather - £59

The Smart Cover is one of those ridiculously clever ideas that only Apple could come up with. The magnetic hinges on the cover automatically line up with the edges of the iPad 2, while the segmented panels on the cover allow it to fold up and act as a stand.

Amplitube iRig

IK Multimedia
www.ikmultimedia.com
£39.95

The new version of GarageBand for the iPad (see page 110) is terrific fun to play with, simply using your fingers to tap out tunes on the screen. However, you can also connect a guitar to it by using an adaptor such as the iRig, which also includes the terrific Amplitube guitar effects app.

Apple iPad Camera Connection Kit

Apple
store.apple.com/uk
£25

Compatible with both versions of the iPad, the Camera Connection Kit consists of two components. A USB adaptor allows you to connect your camera directly to the iPad in order to transfer your photos, or you can use the memory card reader to insert a memory card instead.

Altec Lansing inMotion Air

Altec Lansing
www.alteclansing.com
£169.99

The inMotion Air doesn't have a dock for an iPod or iPad at all, instead relying on Bluetooth to stream wireless music from any iOS device. The sound quality is very good, and the lightweight speaker unit also has a built-in rechargeable battery, so it's easy to carry from room to room at home.

Apple Digital AV Adapter

Apple
store.apple.com/uk
£35

At long last – the Digital AV Adapter provides an HDMI interface so that you can hook your iPad up to a flat-screen HD TV – and it also works with the current iPhone and iPod touch. Apple makes similar adaptors with VGA output for computer monitors, as well as composite and component video.

Apple Wireless Keyboard

Apple
store.apple.com/uk
£57

It doesn't look as though the existing iPad Keyboard Dock works with the slimmer design of the iPad 2, but this Bluetooth Wireless Keyboard is a good alternative if you want a proper keyboard for typing on the iPad. It's slimmer, lighter and more portable too.

Belkin Slim Folio Stand

Belkin
www.belkin.com/uk
£34.99

Belkin refers to the Slim Folio as a 'stand' but it looks more like a case to us. It has a similar design to Apple's Smart Cover, as it folds backwards to prop up the iPad's screen, but unlike the Smart Cover it provides full wrap-around protection for both the front and back of the iPad.

I Lov Paris

Be.ez
www.be-ez.com
£25

Another stylish protective case – this time decorated with scenes of romantic Paris. There's a choice of three scenes provided by well-known illustrator Mathieu Rivière, and three different colour schemes. The zip-up case is padded with tough polyurethane panels for added protection, along with a soft fleece lining, and there are MacBook models too.

Screen Overlays

Belkin
www.belkin.co.uk
£17.99

In our opinion a screen protector is pretty much a must-have for any iPad owner, and there are two options available from Belkin. There's a basic clear overlay, and a version with a matte finish that helps reduce glare on the iPad screen when you're using it outside in broad daylight.

Cygnett Glam

Cygnett
www.cygnett.com
£34.95

Here's a stylish case for the *Sex and the City* crowd – a chic, glossy wrap-around number that also doubles up as an adjustable stand. A concealed magnetic clasp holds the case shut while you're moving, and an internal strap keeps the iPad safe and secure.

Zeppelin Air

Bowers & Wilkins
www.bowers-wilkins.co.uk
£499

The original Zeppelin speaker got rave reviews, and the new Zeppelin Air is one of the first of a new generation of speaker systems equipped with Apple's wireless AirPlay technology. AirPlay transmits audio using WiFi – rather than Bluetooth – and a lossless audio format that provides top quality for your music.

Dual Dock

Griffin Technology
www.griffintechnology.com
£49.99

Let's face it -- if you've got an iPad then the chances are you've already got (or really want to get) an iPhone or iPad as well. Griffin's clever Dual Dock does away with all the charging cables and lets you charge up both devices at the same time.

CinemaSeat

Griffin Technology
www.griffintechnology.com
£24.99

Here's another product from Griffin that'll help keep the kids quiet. The CinemaSeat is a protective case with an adjustable strap that can be attached to the headrest of a car seat. Just fire up some iTunes films and the kids will sit quietly in the back seat right through the bank-holiday traffic jams.

Gear4 Angry Birds Case

Gear4
www.gear4.com
£34.99

We couldn't resist this one! The name says it all, of course, but you do have a choice of three different designs. These tough polycarbonate clip-on shells are available with just angry birds, bird and pig face-to-face, or a 'family' shot with birds and pigs facing each other across the battlefield.

Crayola iMarker

Griffin Technology
www.griffintechnology.com
Price to be announced

It's designed for kids but we want one too! The iMarker is a digital stylus that can be used in conjunction with Crayola's ColourStudio HD app to create an dynamic colouring book that includes drawings, animations and special effects. You can print your artwork too, or even upload it to Facebook.

A-Frame for iPad

Griffin Technology
www.griffintechnology.com
£39.99

The A-Frame is a sturdy aluminium stand for your iPad that comes in handy for watching video or viewing full-screen apps (we use ours in the kitchen to watch Jamie Oliver's cooking apps). We like the fact that the stand is large enough to hold the iPad even when it's still in a protective case.

Fidelio DS8550

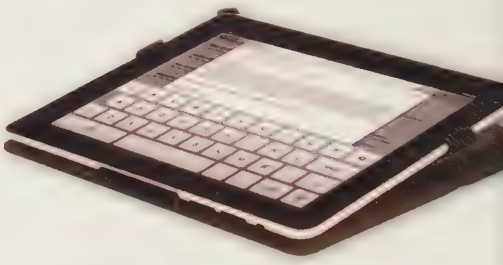
Philips
www.philips.co.uk
£249

It doesn't have AirPlay, but the Fidelio is still a terrific set of speakers. Its elegant, curved design looks great, and sounds just as good. The adjustable dock unit accommodates an iPad, iPod, or iPhone, but it also has Bluetooth wireless connectivity. It features a rechargeable battery, too.

goBAT II

Scosche
www.scosche.com
£79.99

The goBATT II is a compact little battery pack that you can easily slip into your pocket when you're out and about. It can charge an iPad to about 50 per cent of a full charge, providing up to six hours of additional use. It's equipped with two separate USB ports, allowing you to charge an iPhone at the same time.



FoldIO P2

Scosche
www.scosche.com
From £30

Apple's Smart Cover is really, well, smart, but it doesn't protect the entire iPad. If you're looking for better all-round protection then Scosche's FoldIO P2 is a good alternative. The case is lined with soft suede to protect the screen, and also acts as a stand when you're typing or watching videos.

Leather Sleeve

Proporta
www.proporta.com
£34.95

Proporta always comes up with stylish, classy designs, and the new Leather Sleeve is no exception. The zip on the front is a neat touch and unlike many iPad cases it's made from real leather. Take your pick from tan or plain black.

JBL OnBeat

JBL
www.jbl.com
£149.99

JBL's latest speaker system is available in black or white to match the iPad 2. It has a rotating cradle that allows you to hold the iPad either upright or in widescreen mode, and a handheld remote control so you can flick between videos and music without stirring from the couch.

StompBox

Griffin
www.griffintechnology.com
Price to be announced

Another great gadget for musicians, the StompBox is a four-channel effects pedalboard that works with any iOS device. It was designed to work with the popular iShred guitar amp app, and includes a cable for connecting a guitar and a standard input jack for connecting other devices.

iLuv Foam Case

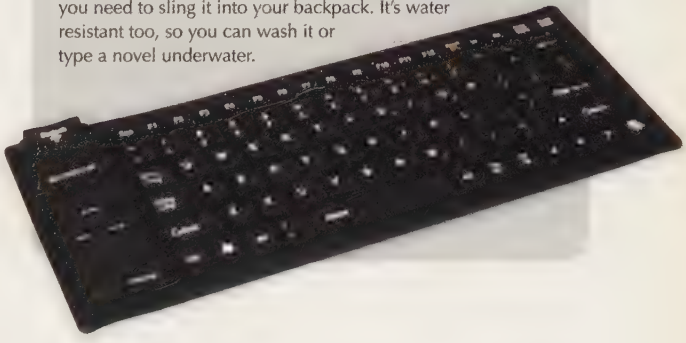
iLuv
www.i-luv.com
£24.99

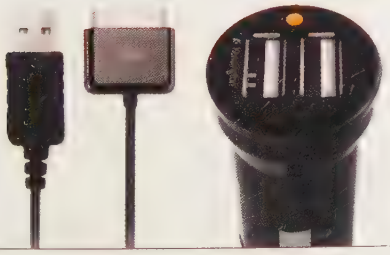
If you want to keep your iPad extra safe then you might want to check out iLuv's Foam Case. The case is lined with 'memory foam' that moulds itself to the contours of the iPad to protect it from bumps and knocks. It's available in hot pink or a more restrained black.

freeKEY

Scosche
www.scosche.com
Price to be announced

We've seen a number of Bluetooth wireless keyboards that you can use with the iPad – but this one is made out of rubber and can be rolled up when you need to sling it into your backpack. It's water resistant too, so you can wash it or type a novel underwater.





Kensington PowerBolt Duo

Kensington
eu.kensington.com
£24.99

The iPad's battery should last even through long car journeys, but it's worth having a car charger just in case. Several companies make these, but Kensington's PowerBolt Duo has two USB ports, allowing you to charge an iPad and an iPhone or some other device at the same time.

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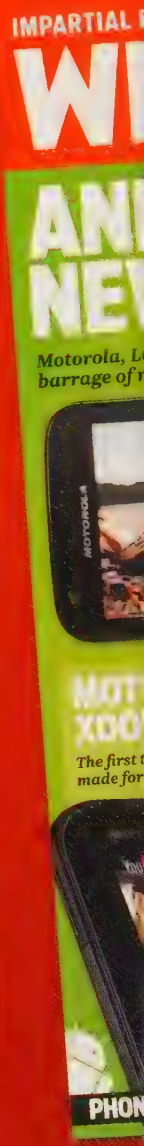

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The 50 best iPad apps

Forget trawling the App Store for the good stuff – just read this definitive top 50

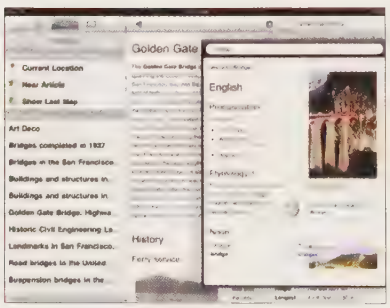
COMICS
kindle
BBC
iPlayer
IMDb
BBC
NEWS
K
HD
PRO
MLB.com

GarageBand

£2.99

Even if you've never played so much as a tambourine, GarageBand for iPad lets you compose and record your musical masterpiece. With a complete set of Smart Instruments at your disposal, GarageBand provides the simplest way for wannabe maestros to put together professional-sounding songs in seconds. Experienced musicians can plug in real instruments, play virtual keys and strings, and record their work.

See Apps in depth, page 110



Wikipanion

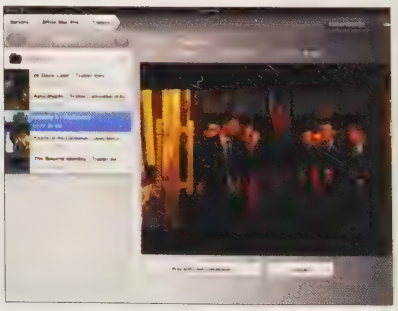
Free

Wikipedia is useful, but you can cut out the browsing part next time you need to look something up by using Wikipanion. The clean design and simple search tools make it easy to find the information you need in a couple of taps.

Reeder for iPad

£2.99

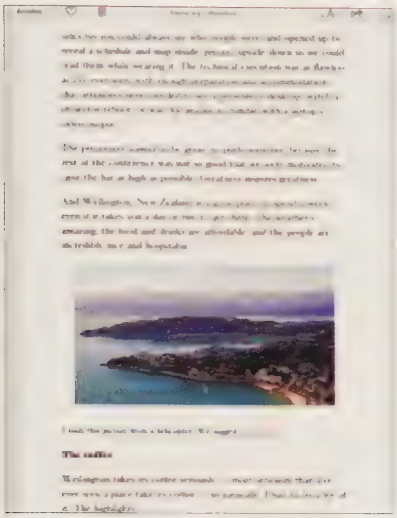
If you use Google Reader, Reeder for iPad might just be your best choice for viewing its contents on your tablet. The app syncs with your account and offers a beautiful interface for you to browse your feeds.



Air Video

£1.79

If you use an iPad you'll know how annoying it can be when you have movies that aren't in the correct format. Air Video lets you stream movies in almost any format from your computer to your iPad, converting them on the fly, even over 3G!



Instapaper

£2.99

How often do you see an article online that you want to read but you don't have the time? If this is a familiar scenario, Instapaper is your answer. Store posts and news stories for later within a smooth interface that makes reading even better than the original document.

iMovie

£2.99

Making movies isn't the niche skill it once was. Just as digital editing made cutting film a thing of the past, iMovie for iPad does away with the desktop entirely, allowing you to make movies on the move. Drag and drop clips you've shot or imported, add music and titles and share your creations on YouTube in minutes.

See Apps in depth, page 122

Adobe Ideas

Free

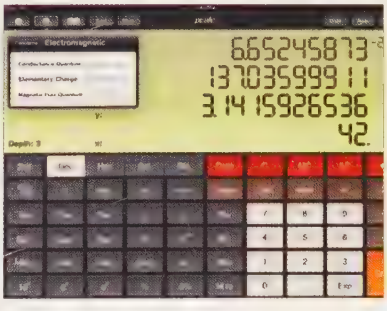
If you have an idea that you need to scribble down, don't risk losing it on a scrap of paper or the classic beer mat – use Adobe Ideas. This simple tool offers vector drawing and painting and works with an external display when used with the iPad VGA/HDMI adaptor.

Photogene for iPad

£1.79

Photogene is a powerful image editor with an impressive range of features. Whether you simply want to crop or rotate an image or perform more complex edits such as applying filters, Photogene can handle it.

See Apps in depth, page 134

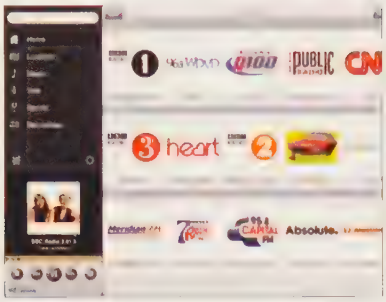


PCalc RPN Calculator

£5.99

How could Apple have launched the iPad without including a calculator like on the iPhone? Fortunately, there's PCalc RPN Calculator which not only handles the basics but also offers scientific calculation for maths fiends.

See Apps in depth, page 142



TuneIn Radio Pro

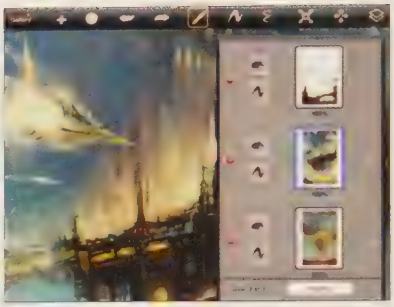
£0.59

Listen to your favourite radio stations from a choice of over 40,000 with TuneIn Radio Pro. Compatible with both iPhone and iPad, it allows users to record shows, search content and pause live streams for up to half an hour.

MyPad

Free

Facebook doesn't seem to want to make an app for the iPad, so Loytr Inc has done the job instead. This smooth app is optimised for the iPad 2 and has a stacked interface for viewing different screens including video and photos.



SketchBook Pro

£4.99

Autodesk makes great desktop software and has transitioned beautifully to the iPad with SketchBook Pro. This professional-quality app offers a range of digital art tools including 75 preset brushes with pressure sensitivity, and symmetric drawing.

Twitter

Free

If you're addicted to all things Twitter, the service has a good-looking iPad app that will meet all your 140 character-based needs. The interface is slick, allowing you to swipe between views such as @ replies and direct messages. You can set push notifications so you know when you receive new messages too.

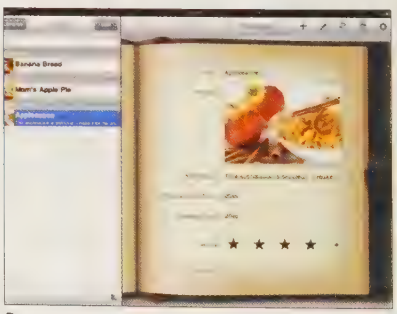
See Apps in depth, page 130

BBC iPlayer

Free

iPlayer is a must-have app for iPad, allowing UK licence fee payers to watch BBC shows from the last week on demand. With over 400 hours of programmes to choose from, this will have you glued to your iPad screen.

See Apps in depth, page 154



Bento

£2.99

This deliciously designed app is the ultimate tool for organising contacts, planning events, budgeting or just making a to-do list. Perfect when used in conjunction with Bento for Mac or as a standalone product for multiple tasks.

Air Sharing HD

£5.99

One thing the iPad lacks is the ability to sync to your computer wirelessly. Fortunately, Air Sharing HD allows you to mount your iPad on your desktop, just like an external drive, and drag and drop files to and from it.

Remote

Free

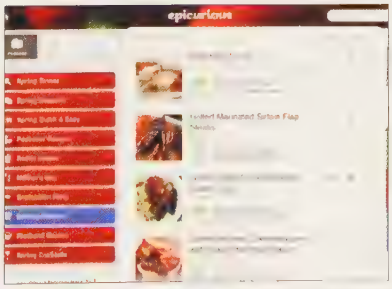
Take control of your home entertainment with Apple's free Remote App, which gives you wireless control of iTunes and Apple TV from your iPad. Skip songs, select playlists, and browse movies, trailers and YouTube videos on your HD TV.

iBooks

Free

One of the iPad's many unmissable features, ebook reading is offered in the form of iBooks, which includes a reader and a book store. Download titles like you do apps and they're ready to read. Font size and brightness can be adjusted to your liking and the page turn transition and bookmark features add to the reading experience.

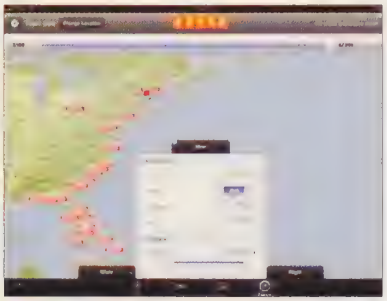
See Start up, page 42



Epicurious Recipes & Shopping List

Free

Stuck for a something to cook? Not sure what to do with the three eggs in your fridge? Epicurious can help. Simply type in your ingredients or search food types to find hundreds of recipes. It'll even make you a shopping list.



Kayak HD

Free

This clever flight comparison app makes finding the ideal trip a breeze. Enter your criteria – including weather conditions – and dates and use a slider to adjust the price range until you find your match. It couldn't be easier.

Shazam

Free

Never be stuck wondering the name or singer of a song again. Simply hold your iPad near a speaker, hit the Shazam button and the app will analyse the music and tell you what it is. It will then direct you to iTunes to buy it or point you towards it on YouTube.

djay

£11.99

It was inevitable that the iPad's touchscreen would become a platform for music, and djay is a prime example. Mimicking a complete turntable setup, the app takes in music from your iPod library and allows you to mix tracks and match beats

Dropbox

Free

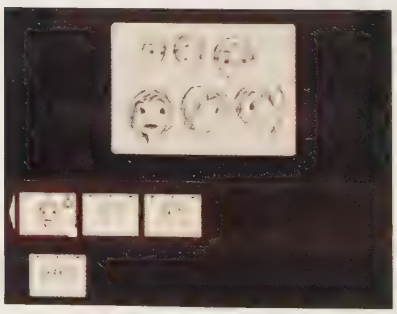
If you already use Dropbox you'll be glad to see it on the iPad. If you've not, you're missing out on a free file sharing service that syncs to your desktop (and now your iPad) so you can access important files from anywhere with an Internet connection. A number of popular iPad apps also include Dropbox integration.

See Apps in depth, page 150

The Times

Free

Check out the trial of this subscription-based app and you'll be hooked. Offering all the news from the print edition and much more besides, The Times app includes interactive stories and live sports updates.



Animation Desk for iPad

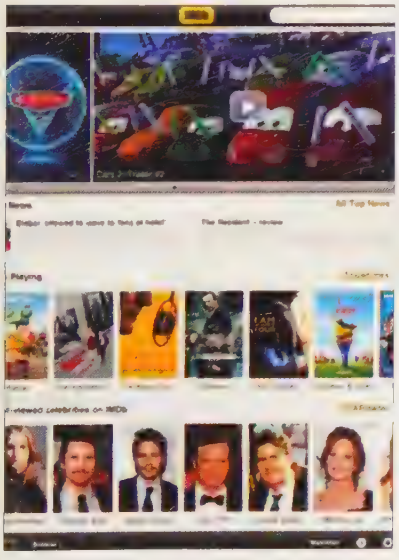
£1.79

Creating animation is a breeze with this fun iPad app that lets you quickly draw frames to build your own cartoons. The delightful user interface offers 'onion skinning', file organisation and easy YouTube video export.

PocketBooth HD

£1.19

If you liked mucking around in photo booths as a child and never quite grew out of it, you can save some money with PocketBooth HD. For less than the cost of one photo booth session you can pose unlimited times and even send your photos to a wireless printer



IMDb Movies & TV

Free

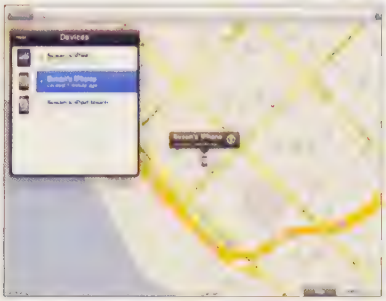
All the latest movie news, as well as information on that actor who was in that TV show who also starred in the movie you can't remember the name of. You'll use this beautifully crafted movie database app more often than you think.

Flipboard

Free

Wouldn't it be nice to see tweets and Facebook updates from people you know and trust presented in a slick magazine format? Well now you can with Flipboard, a clever app that pulls in the feeds from your Twitter and Facebook accounts as well as any others you may wish to add. It's like seeing your friends in print.

See Apps in depth, page 138



Find My iPhone

Free

If you have an iPhone and an iPad, this app is one you really should download. With the service activated, you can locate your iOS device using the other by sending an alert or using a Google map. Should the worst happen, you can even remotely wipe your device.

Night Stand HD – Alarm Clock

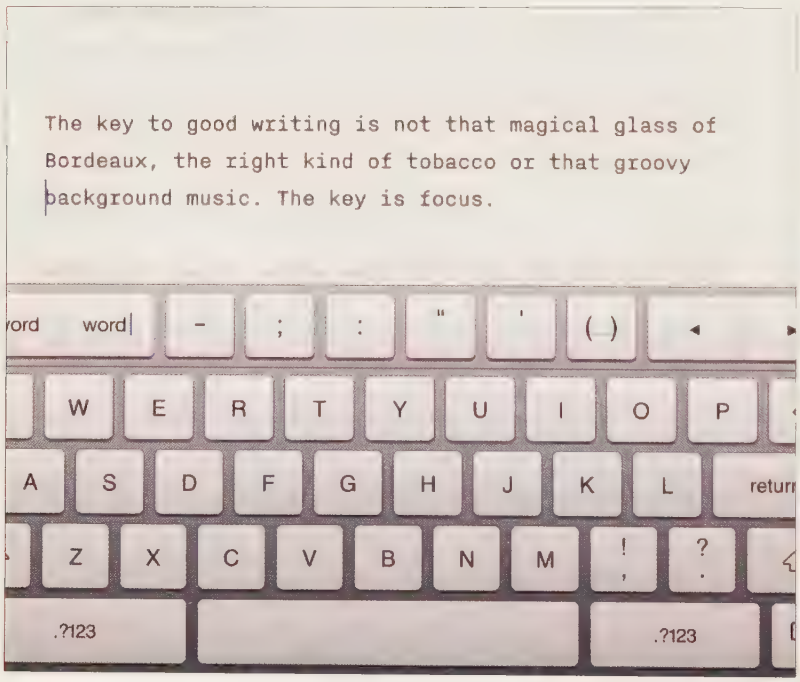
£1.19

If you can't bear to be away from your iPad for five minutes, why not put it next to your bed and use it as an alarm clock? With a number of preset displays, weather and alarm settings it's the perfect app for those who like to wake up next to their favourite gadget.

Dragon Dictation

Free

Take the hassle out of typing reminders into your iPad by talking to it instead. This isn't just voice recording, though – it's dictation. Dragon Dictation does a great job of converting your speech to text with impressively few errors.

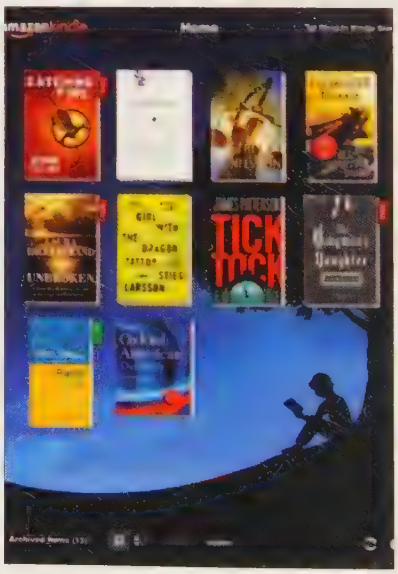

The key to good writing is not that magical glass of Bordeaux, the right kind of tobacco or that groovy background music. The key is focus.

iA Writer

£0.59

Simple and understated but ideally suited to the task of writing, iA Writer has to be the best tool for writers on the App Store. It features FocusMode, which only shows the last three lines you've written, and a number of excellent touch-based features that don't clutter the interface but help keep your text as the primary focus.

See Tutorial, Apps in depth 146



Kindle

Free

If you're not taken with iBooks or it doesn't have a title you're after, try Amazon's Kindle app as an alternative. Browse books on the Kindle store and buy them from the Amazon site to enjoy on your iPad wherever you may be.

Pages

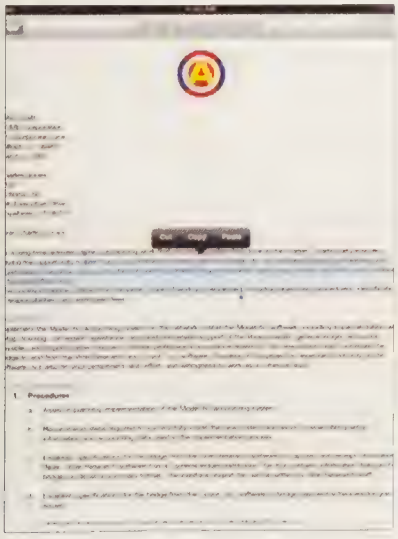
£5.99

Just like the Mac desktop equivalent, Pages for iPad is a beautifully crafted app with multiple features. It's more than just a word processor, offering page layout functions for a wide range of tasks from projects to posters.

procreate

£2.99

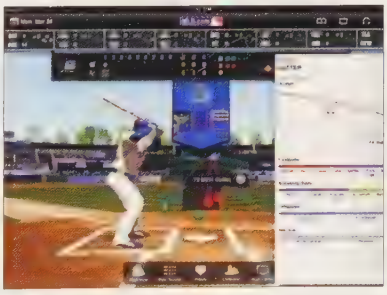
Despite the rather suspect name, procreate is an excellent iPad painting app that, with a little work, allows you to create epic works of art. The interface is easy to use and doesn't bombard you with windows and pop-ups. It lets you create in layers, and you can even make your own brushes.



Documents To Go – Office Suite

£5.99

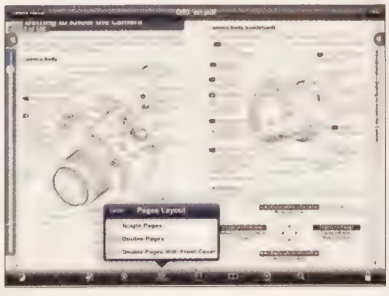
An office suite for your iPad, Documents To Go adds compatibility with a number of non-iPad file formats and lets you edit them too. A desktop app allows you to sync your documents wirelessly.



MLB At Bat 11 for iPad

£8.99

Possibly the best sports app ever made. If you like baseball, this indispensable app is ideal for following the big game. Get stats, commentary and even live video with an MLB subscription to turn your iPad into a sporting command centre.



GoodReader for iPad

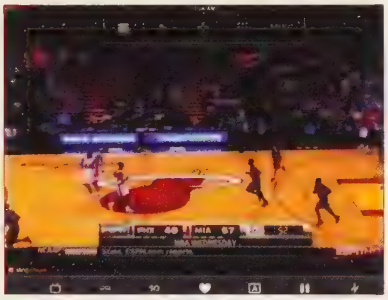
£2.99

Open your iPad to more formats than it's used to and access giant PDF and TXT files with GoodReader. Annotate documents, sync files and transfer them regardless of their size or content.

Todo for iPad

£2.99

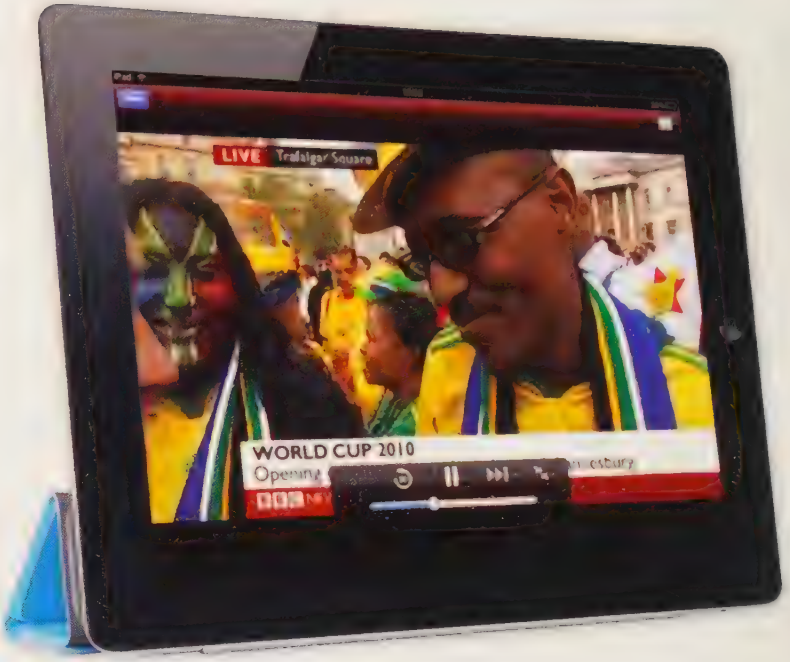
Working in perfect tandem with your iPhone and desktop computer, Todo for iPad is the easiest way to keep track of tasks and important events. With beautiful themes and a simple interface it's the ultimate digital Filofax.



SlingPlayer Mobile for iPad

£17.99

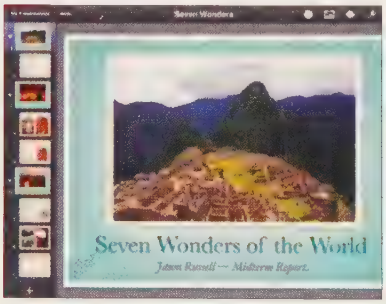
If you have a Slingbox you'll know how easy it is to watch your home TV on any computer. The SlingPlayer app adds this functionality to your iPad for TV viewing so you don't miss your favourite shows, even when you're abroad.



BBC News

Free

The best news stories and a 24-hour live feed of news are all available in this well-crafted app from the BBC. Customise the interface to suit your news preferences and hit the 'Live' button to get updates on the latest goings-on, wherever you are. An essential app for use with your morning coffee.



Keynote

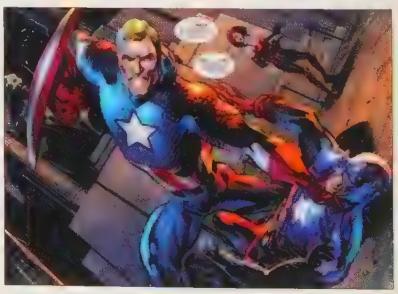
£5.99

Building engaging presentations has long been the sole territory of Microsoft PowerPoint – but not any more. Apple's answer is Keynote: the iPad version offers a wide range of themes and transitions, helping you create professional, dynamic slideshows wherever you are.

Word Lens

Free

The app itself might be free but to experience Word Lens' true power you'll need to make an in-app purchase. Once you do you'll be able to magically translate Spanish text into English in front of your eyes using your iPad's built-in camera.



Comics

Free

If you never grew out of the joys of immersing yourself in a good comic, this app's for you. Comics for iPad brings you comics from the very best publishers, including Marvel and DC, while the iPad 2's lush screen means reading them is still a magical experience.

Magic Piano

£0.59

Not exactly a professional music tool but still a lot of fun, Magic Piano offers a unique way to play popular songs by following lights on the screen. There are also two other keyboard displays for more casual play.

Color Splash For iPad

£1.19

This photo-editing tool was made for the touch-screen and provides all the tools you need to add incredible effects to your snaps. Start by turning an image black and white and then swipe your fingers over areas to add colour.

iTeleport for iPad

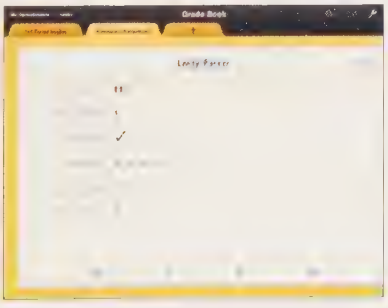
£11.99

After you've got past the steep price tag, you'll wonder how you ever lived without iTeleport. This app allows you to connect to and share the screen of your computer on your iPad. If you forgot to shut down iTunes or need to email yourself a file, getting up is no longer required with iTeleport installed.

F1 2011 Timing App CP

£19.99

If you love your motorsport then this incredible app is nothing short of unmissable. Follow races and practice from the 2011 F1 season with real-time track positioning, live timing data and live text commentary. An expensive app but worth it for F1 fans.



Numbers

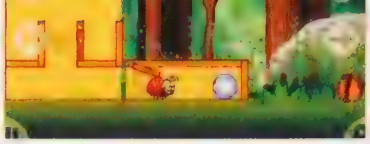
£5.99

Spreadsheets don't have to be dull, as Numbers elegantly proves. Adding colour, style and dynamic charts to your spreadsheets, this nifty iPad version of the Apple software can be used for anything from organising a party to bookkeeping.

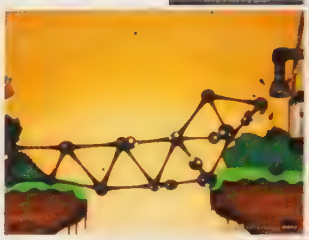
Elle Collections The Preview

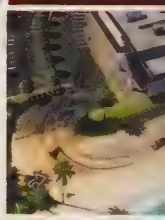
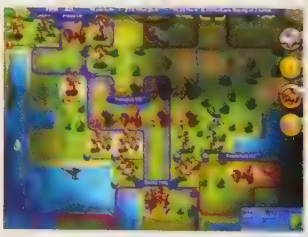
Free

If the iPad is the height of style, it makes sense that it can show you other fashionable delights. Elle Collections is a huge app that showcases the latest looks from the catwalks each season and even takes you backstage to peek behind the scenes at the biggest shows.

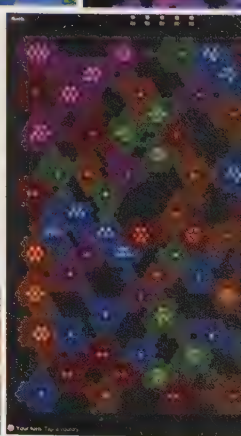
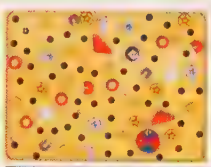


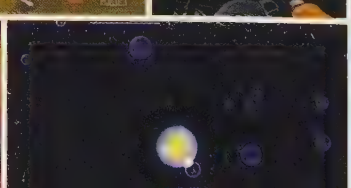
The 50 iPad games you have to play



From fiendishly addictive puzzlers to fast, furious shoot 'em ups, the App Store offers something for everyone…



Beat 40 Seconds

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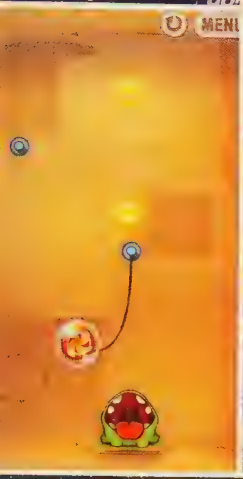
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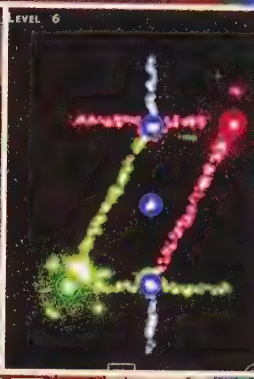
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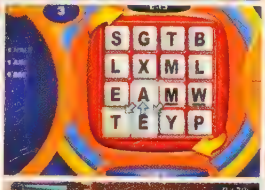
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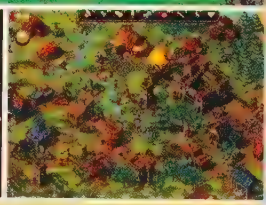
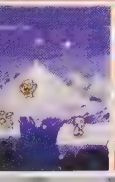
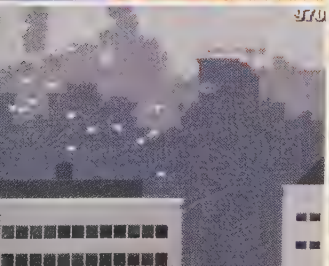



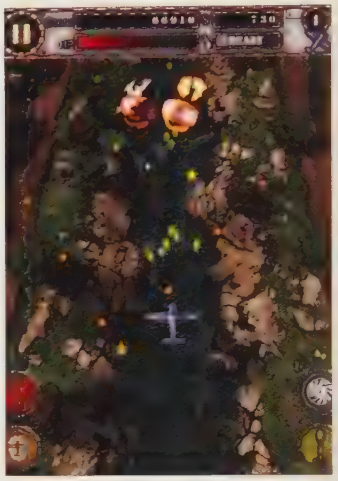
SCRABBLE

SCORE: 78


Cut the Rope HD

£1.19

Chillingo's delightful little time-waster is rapidly approaching Angry Birds-esque levels of ubiquity, and with good reason. Its ingenious gameplay, in which you attempt to feed a lizard-like creature candy by snipping the rope from which it hangs, is thoroughly moreish. Easy to play but hard to master, this is a cute, content-heavy gem.



AirAttack HD

£0.59

It's not big and it's not clever – but AirAttack sure is fun. There are plenty of top-down shoot 'em ups cluttering up the App Store but this flies in rarefied air. The eight missions make for a solid one-off campaign but high score-chasing is where the real fun is. And only 59p? Bargain.

Space Invaders Infinity Gene

£2.99

Arcade veteran Taito completely reinvents its decades-old classic, creating a bonkers, brilliant shooter that piles on mad idea after mad idea. One of the very best top-down shooters you'll play on any system, with enough content to keep you playing for hours.

Civilization Revolution for iPad

£7.49

The hugely popular PC strategy series survives being shrunk down for the iPad, offering a fun, accessible war sim. There's not quite as much going on as the franchise faithful might be accustomed to, but there's still plenty here for your money.

Scrabble for iPad

£3.99

It's Scrabble. On your iPad 2. What more do you want? Any lingering doubts you might have had about whether Apple's device was worth the cash will be dispelled once you've enjoyed a long-haul flight with this slick conversion of the perennial boardgame favourite for company.

Super 7

Free

OK, so the screenshots might not scream 'buy me!' but believe us, once you've picked up this clever little puzzler you'll struggle to put it down. The concept is simple but compelling – just draw lines between floating numbers and multipliers to make as many sevens as possible.

Plants vs. Zombies HD

£3.99

From the same genius factory that brought you the fiendishly addictive timesinks Bejeweled and Peggle, Plants vs. Zombies HD should be your first port of call when you unwrap your new iPad. The bonkers concept sees you defending your home from wave after wave of zombie invaders by planting various projectile-lobbing strains of flora. Beautifully presented and furiously addictive, this is portable joy.

Real Racing 2 HD

£5.99

Of all the tilt-to-turn racers vying for pole position on the App Store grid, this is the slickest, speediest and most feature-heavy. The £5.99 price tag might seem steep, but that gets you both a 10-hour campaign and local or online multiplayer over 15 different tracks.

Dungeon Hunter 2 HD

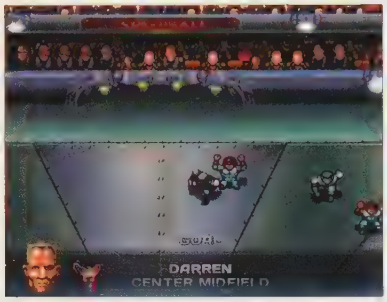
£3.99

In the market for a portable version of classic PC action role-playing game Diablo? Gameloft has stepped up with a shamelessly derivative but very enjoyable facsimile, packing in more orcs, dragons, mages and broadsword-wielding warriors than you can shake a magic staff at.

Soosiz HD

£1.19

Daft name, awesome game. Soosiz HD is a beautiful, cartoony platformer with a neat gravity-flipping mechanic to keep you in your toes – think a 2D Super Mario Galaxy and you're well on your way. It's perfect for kids, but grey-haired gamers raised on Nintendo will lap this up on the sly.



Speedball 2 Evolution

£1.79

One for the veteran gamers, Speedball 2 Evolution is a classy update of the Amiga classic, complete with WiFi multiplayer and handsome new HD visuals. For the uninitiated, imagine a futuristic cocktail of football, hockey and bar-room brawling.

Labyrinth 2 HD

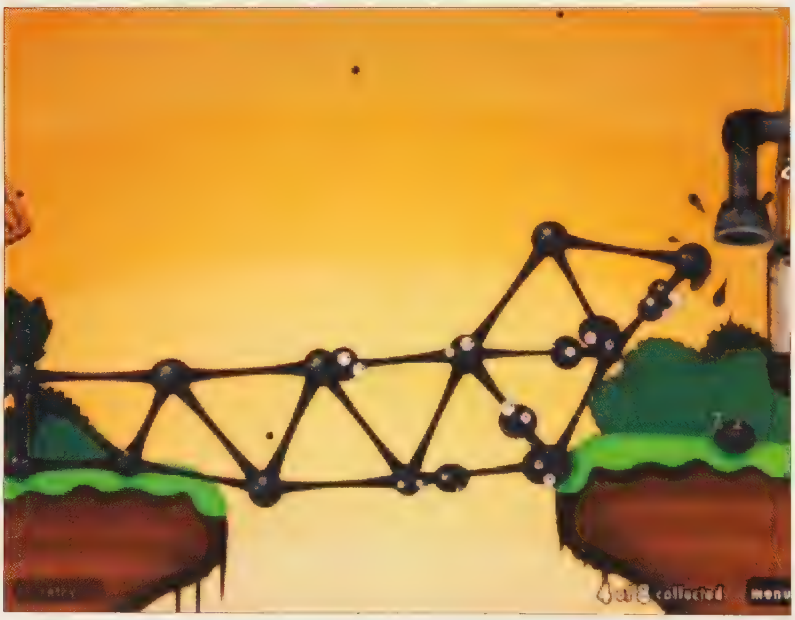
£4.99

The classic tilt-and-roll marble maze game gets a smart iPad update, boasting a barrel-load of new stages as well as access to thousands of user-created efforts. There's four-way multiplayer, new maze elements and achievements to rack up.

Zombie Infection HD

£2.99

The same crew behind N.O.V.A. 2 and Dungeon Hunter attempt to re-skin the hugely successful Resident Evil franchise for the iPad and with some success. As guilty pleasures go, nonchalantly head-shotting a brain-hungry denizen of the undead is tough to beat.



World of Goo HD

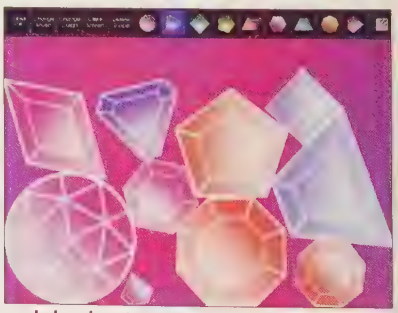
£2.99

It might not get as much press as the likes of Angry Birds or Cut the Rope, but ask a dedicated gamer what the finest title on the App Store is and there's a good chance they'll bring up this wonderful creation. Your task is to stretch balls of sentient goo into precarious structures to provide access to an escape pipe. Eccentric, charming and very challenging.

Broken Sword: Director's Cut HD

£3.49

Looking for a meatier experience than the average pick-up-and-play title? This is it: a lavish HD makeover of the 90s PC adventure game. The point-and-click exploration works well and the twisty plot is a match for any airport thriller.



polyhedra XL

£1.19

Another fine example of what the iPad arguably does best: physics-based puzzles. This spangly, psychedelic effort sees you trying to fill the screen with different shapes while avoiding enemy particles. Another monstrous timesink, should you let it get its claws into you.

Denki Blocks! HD

£2.99

Another deceptively simple puzzler that will rapidly monopolise your spare time. The concept here is to slide blocks of the same colour around the board to form different shapes. Sounds simple – but things quickly get furiously complex.

Flight Control HD

£2.99

This should need no introduction. One of the first *bona fide* App Store phenomena makes a classy trip over to the iPad, adding a wealth of new features to the already rammed original. There are three new maps, online multiplayer, and same-screen co-op play that lets two users guide planes into land on the same screen at the same time. It's a generous amount of content for your £2.99.

Pinball HD

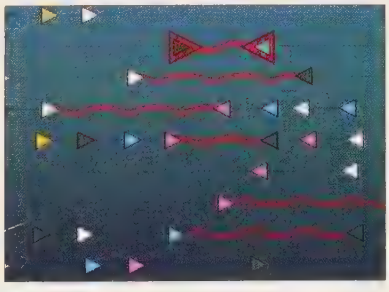
£0.59

Does exactly what it say on the tin, and with considerable style. The three tables on offer look great, the physics are spot-on and developer OOO Gameprom has got the pleasingly arcade-y sound effects just right. At 59p, you couldn't really ask for more from a pinball game.

BIT.TRIP BEAT HD

£0.59

Essentially Pong on industrial-strength hallucinogens, BIT.TRIP BEAT HD is an insane little thing. It's brutally hard, but so eye-poppingly out-there that you'll gladly come back for a second thrashing. What's more, its chip-tune soundtrack is ear candy of the highest order.



Halcyon

£1.19

On paper, Halcyon looks about as appealing as a brussels sprout smoothie – but there's much, much more than meets the eye here. Beneath the spartan presentation is a clever, almost hypnotic music-based puzzler that will ring-fence your free time for weeks.

Canabalt

£1.79

The game that kicked off the free-running platformer sub-genre is a brilliantly clever challenge in which you must attempt to keep your sprinting fugitive alive as long as possible as he dashes across rooftops away from an elusive, never-seen pursuer. Essential.

Monster Dash

£0.59

And here's the game that cashed in on Canabalt's ground-breaking set-up. It's just as fun and adds a dollop of zany humour and outrageous violence to give it its own flavour. One of the most compelling score-chasers on the App Store.

Beyond Ynth HD

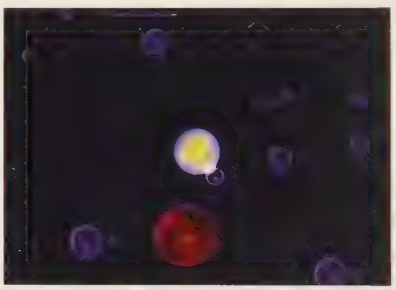
£1.79

A cute, quirky puzzle platformer that sees you applying the grey matter to overcome various obstacles placed in the path of the game's hero, a cheerful ladybird. The lovely art style and spicy learning curve round out the package nicely.

Infinity Blade

£3.49

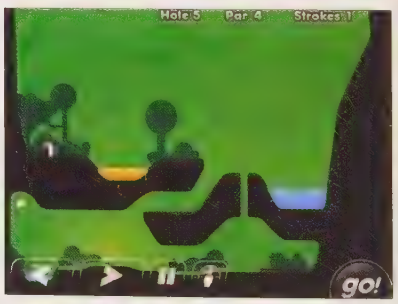
Developed by the same outfit that brought you the hit Xbox 360 Gears of War series, this unique swordfighting sim is the perfect app to show off what the iPad 2 can really do. The swipe-based gameplay is intuitive, nuanced and hugely addictive, while the visuals are pretty enough to take home and meet your mum. A landmark iOS game and an exciting glimpse into the future.



Osmos for iPad

£2.99

An impossible-to-pigeonhole title that sees you trying to grow a floating blob by delicately prodding it around the screen to absorb other, smaller blobs. It's a unique, ambient, zen-like plaything – just the thing after a day fighting your way through the rat race.



Super Stickman Golf

£0.59

Ignore the title – this delightful game has very little to do with the pensioner's game of choice. Instead, it's a crafty physics-based platformer that sees you attempting to ping your ball through a series of fiendish stages with the help of a variety of over-the-top power ups. Highly recommended.

Angry Birds HD

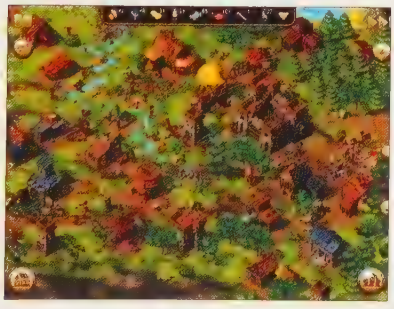
£2.99

On the off-chance that you've managed to avoid it so far, it really is time you gave Rovio's all-conquering, bird-flinging phenomenon a go. It's pure, distilled fun and absolutely rammed to the gills with content. There are three versions to try now – the original Angry Birds, Angry Birds: Seasons or the recent movie tie-in, Angry Birds: Rio, with very little to choose between them.

Galaxy On Fire 2

£5.99

Anyone old enough to remember space trading classic Elite? If you still miss that game, this should be right up your street. It's an enormous intergalactic adventure of the scale you'd expect to find on your PC, not a humble tablet. Invest the time and there are months' worth of missions to get stuck into here.



The Settlers HD

£0.59

Arguably the most successful attempt at squeezing a full PC realtime strategy experience onto the confines of the iPad, The Settlers HD is crammed with content and just about manages to eke a sensible control system from the touchscreen. Some knowledge of the genre is necessary, though.

Reckless Racing HD

£2.99

If Real Racing 2 is the iPad's answer to Gran Turismo, Reckless Racing is surely its Mario Kart. It's a madcap top-down racer that sees you hooning around eight different tracks at breakneck speed, complete with online multiplayer and leaderboards for the competitively spirited.

Puzzle Quest 2

£2.99

Essentially a classy Bejeweled clone with a side order of immersive RPG trimmings, this is just the thing for iPad gamers who like to mix in a little Dungeons & Dragons with their casual match-three puzzling. At £2.99, there's plenty of game for your money too.

Real Golf 2011 HD

£0.59

After a straightforward, traditional golf sim for your iPad? Look no further, Real Golf 2011 does the job. The control scheme is precise, it looks great and there's plenty of content – including 10 real-life courses, a number of pros and online multiplayer options.

Brothers In Arms 2: Global Front HD

£0.59

A sturdy, scaled-down version of the popular console and PC shooter, this won't win awards for originality but it delivers solid thrills. The virtual D-pad controls are as tricksy as ever, but persevere and there's plenty of bang for your buck here.

Dead Space for iPad

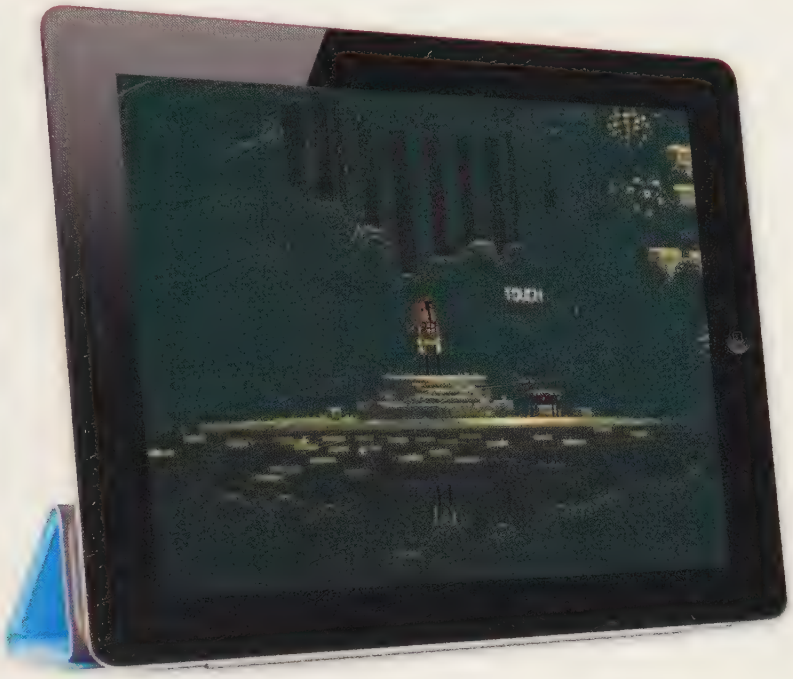
£5.99

Further proof, should any be needed, that the iPad can handle 'proper' games. Rather than rushing out a cheap, clumsy port of its bestselling console survival horror series, EA has produced a standalone game. Not only does it look fantastic and nail the touchscreen controls in a way that few action games really have, it's ruddy terrifying too. You have been warned.

Collision Effect

£0.59

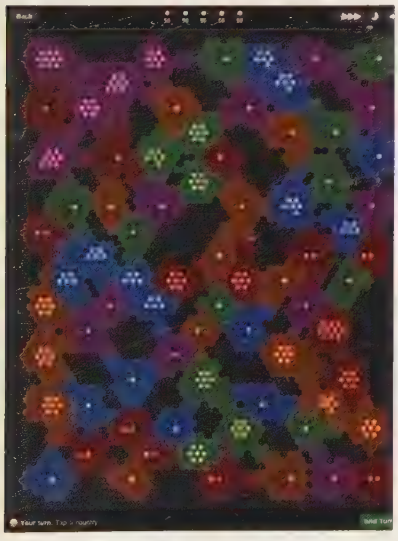
Another deceptively simple yet furiously addictive number from iOS gurus Chillingo sees you hoovering up orbs of a matching colour while dodging obstacles. It's not quite a Cut The Rope-beater but it's a highly polished puzzler with a fresh, fun gameplay mechanic.



Superbrothers: Sword & Sworcery EP

£2.99

The latest effort from the team that brought you delightful iPhone puzzler Critter Crunch is a weird and wonderful adventure game that puts an artsy 21st-century twist on Nintendo's beloved Zelda template. It's an absolutely bewitching experience, really pushing the boundaries of what an iPad game can achieve, both sonically and visually. An essential purchase.



Strategery

£1.19

We'll forgive developers Affogato for mauling the English language, as it has created one of the deepest strategy puzzlers on the App Store. The concept is simple – you must conquer a randomly generated screen of differently coloured dots by rolling a die – but it's fiendishly addictive.

LEGO Harry Potter: Years 1-4

£1.79

A fantastic debut for the LEGO series proper on the App Store and a must for fans of the boy wizard. If you've played the LEGO games on other systems you'll know what to expect: tongue-in-cheek adventuring, moreish collectible hunting and character customisation options aplenty.

Fruit Ninja HD

£1.79

The game's basic concept – chop up fruit by swiping across the screen – is so absurdly simple that you wonder how it could possibly sustain a compelling game. But boy, does it ever. There's something supremely satisfying about dicing a watermelon to ribbons with a samurai sword.

Helsing's Fire HD

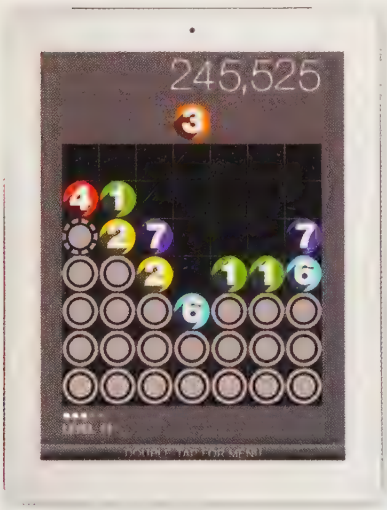
£1.79

Another utterly original iOS game, which could only exist within the confines of Apple's touchscreen family. See off the armies of the undead by carefully shifting the light rays emitted by your flaming torch to expose creatures hidden in the shadows.

N.O.V.A. 2 – Near Orbit Vanguard Alliance HD

£3.99

Pegging itself as the iPad's answer to best-selling Xbox shooter Halo, N.O.V.A. offers some very sturdy, albeit supremely generic, space marine-centric blasting thrills. The basic single-player campaign is a boisterous thrill-ride – but the real fun comes in the online multiplayer modes, which see you competing for bragging rights with up to nine other players.



Drop7 by Zynga

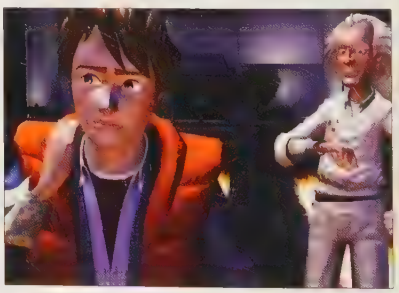
£1.79

It's not much to look at, but like so many great iPad puzzle games, its bare-bones aesthetic masks smart, highly addictive gameplay. In this case, it's a clever mix of Tetris and Sudoku, with you attempting to line up falling numbers so that they match the amount of discs in a column or row. Fiendish but fun.

RAGE HD

£1.19

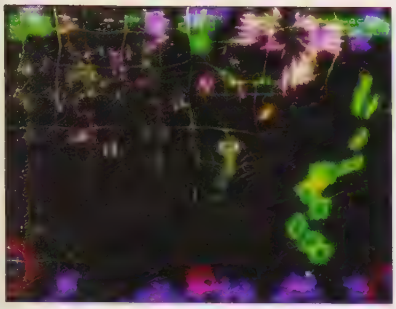
From the same people that brought us shoot 'em up classics Doom and Quake, RAGE HD is a gruesome shooting gallery released to tie-in with the forthcoming PC and console title of the same name. It's not for the faint-hearted, but this is as good as the genre gets on the App Store.



Back to the Future

£3.99 per episode

This lively, cartoony point-and-click adventure game takes the classic Michael J Fox movie as its source material and runs with it. Fans of the movie will be in nostalgia heaven, but you don't need to know the flick to enjoy the game. So far only episode 1 has been released.



Geometry Wars: Touch

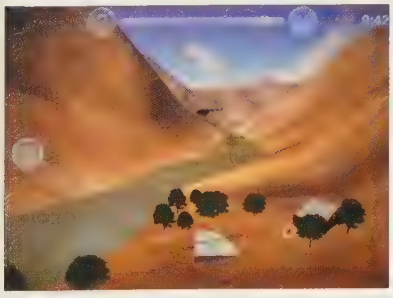
£0.59

Purists will argue that this iOS take on the hugely popular Xbox 360 blaster suffers without actual thumbsticks – but stick with it and there's masses of fun to be had here. Think arcade classic Asteroids turned all the way up to 11 – this is a fast and furious assault on the senses.

Boggle for iPad

£1.79

Another handy weapon in the fight against long-haul flight boredom. The iPad is the perfect fit for the classic word game and developer EA hasn't skimped on the features, offering every imaginable game mode and a multiplayer permutation. A no-brainer.



Chopper 2

£1.79

Remember playing Choplifter on the Commodore 64? Whoever made this fun little action game certainly does. You control the titular aircraft by tilting your iPad from left to right, zooming around stages in search of hostages to airlift to safety or enemy bases to destroy.

Mirror's Edge

£2.99

Another twist on the Canabalt template, this impressive effort really stands on its own two feet. You have to guide your rogue free-runner across rooftops and through enemy facilities, dodging obstacles by swiping across the touchscreen to perform a variety of different jumps and slides. It's hugely satisfying once you master the controls and lock into a smooth flow.

Secret of Monkey Island: Special Edition, for iPad

£2.99

This lovingly crafted HD remake of the classic '90s PC adventure proves that not everything diminishes with age. It's still a hugely enjoyable romp, not to mention certifiably insane, and has never looked better. A delightful trip down memory lane and a great game in its own right.

GarageBand

iMovie

Twitter

Photogene

Flipboard

Apps in depth

Learn how to use 10 of the finest apps on the App Store. You can buy the whole set for less than £20, so get downloading…

PCalc

iA Writer

Dropbox

BBC iPlayer

Air Display

Get to grips with GarageBand on the iPad 2

▶ GarageBand on the Mac has long been an impressive tool for musicians. Sure, it's not Pro Tools, but then Pro Tools costs a fortune, whereas GarageBand comes free on all Macs. Now, this multi-track recorder and music simulation app is available on the iPad, and the power beneath its touchscreen interface is frankly amazing.

For just £2.99, Apple has crammed in an incredible array of music tools: Smart Instruments almost play themselves, virtual instruments put all kinds of sounds at your fingertips, and a full eight-track recorder lets you construct your songs.

If you buy a special guitar cable, the app also puts a whole load of amps and effects pedals to run your guitar through.

The best thing to do to get to grips with the app is to have a play. Here's our guided tour.

VITAL INFO

Over the next 12 pages you'll learn how to make music with GarageBand, from playing virtual and Smart Instruments and recording real instruments, to constructing a multi-track song.

What you need
Your iPad 2
GarageBand app (£2.99)
A guitar and guitar cable (optional)

Time required
A couple of days to while away!

Switch back

Use these buttons to toggle between your multi-track view and the instrument view.

Key controls

Your stop, play and record controls are here. Tap 'Record' and the track you have selected on the left (highlighted in blue) will record.

Instrumental

Tap 'Instruments' to be taken to a carousel of possible instruments for you to choose between.

Add sounds

Add a track using the '+' button at the base of the track selector bar at the left of the screen. You can hide the track options by swiping the tab on the right of the column.

Multi-tracking

Here is your eight-track recording studio. It looks complicated but it's remarkably easy to construct a song.

Play a tune

Here is the instrument view. We've selected the microphone here, but each instrument has its own unique interface. The will be explained in the next pages.

NEED TO KNOW

A little help

Tapping the '?' in the top right of any GarageBand screen brings up context-aware help bubbles explaining the screen you're looking at. Tap again to get rid of them.

Learn to play Smart Instruments

Apple touts Smart instruments as a tool that lets anyone make music, regardless of musical talent – or lack thereof. They're basically automated instruments that allow you to compose music by picking out chords, or in the case of drums, by selecting how you want your beat to be constructed. Here's how they work...

1 From the main screen, tap 'Instruments' and swipe to the Smart Instrument you want to play. Smart instruments have a cog motif around their picture. We're going to start with the Smart Keyboard – so swipe to that and tap it.

2 Each Smart Instrument has a unique look and feel. Even different kinds of keyboard look distinct from one another. Tap the 'Grand Piano' icon to see what other kinds of keyboards there are. Pick one to see the look change.

3 We've picked the Electric Piano. Set 'Autoplay' to 'Off' to play the notes in each chord displayed (see Need To Know, right). Or switch Autoplay on – the keyboard will play a different arrangement of each chord on each of the settings, '1' to '4'.

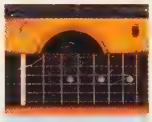
NEED TO KNOW
Key changes

The chords available in your Smart Instrument depend on what key you're playing in. Change the key by tapping the spanner icon in the top right and making your choice.

4 The top bar of each chord represents the treble and middle melody, while the bottom bar represents the bass notes. If you tap the button at the top (the bit that contains the chord name) the whole chord will light up and play.

5 Here's the Smart Guitar. The Smart Guitar and Smart Bass work along the same lines as the Smart Keyboards, except you don't get the option isolate bassy playing from the rest of the chord.

6 Smart Drums are entirely different. Place the drum items on the grid according to how you want it to sound – the scale goes from 'Simple' to 'Complex' left to right, and 'Quiet' to 'Loud' bottom to top. Press the die for a random beat.



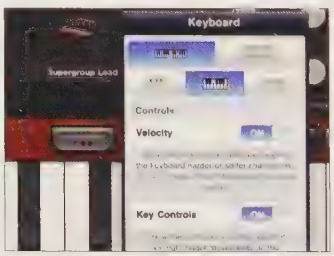
NEED TO KNOW
Going solo
Smart Keyboards and Smart Guitar allows you to choose between 'Chords' and 'Notes' with a switch. Switching to 'Notes' lets you play the instrument yourself – but you'll need to know what you're doing!

Playing the virtual instruments

GarageBand also offers a less automated way of playing music. It's a great way to put your own stamp on your recordings, but it's somewhat harder to master. Here's how to play GarageBand's virtual instruments..

1 Go into the Keyboard. Tap the central button to decide what sort of sound you want it to be. Along the top of the selection box you'll see that GarageBand has some synths built-in, as well as pianos.

2 Several of the Keyboard option have two pages of options, so keep your eyes peeled. We've chosen 'Supergroup Lead' which is under the 'Synth Leads' heading. Tap the icon on the far right to bring up your options.



3 Here you can decide what layout you want – it's possible to cram two decks of keys onto the screen. With 'Velocity' turned on, the iPad uses its accelerometer to determine how hard you're hitting the key and adjust the sound accordingly.

NEED TO KNOW
Spooky sounds

On some synths, hitting a key and sliding your finger upwards towards the top of the key adds a vibrato effect. Great for soundtracking your home-made sci-fi movies.

4 The central button controls what happens when you slide left and right on the keys. You can set it to skip between octaves ('Scroll'), or you can set it so that this sliding motion adds an audio effect such as pitch-bending.

5 Now we've switched to the Drums instrument. As you can see, this presents you with a full drum kit to hit. Press the central button to choose what kind of kit you want to play. A 'Live' kit looks like this.

6 Switch to a drum machine kit and you'll see a grid of pads. It's easiest to create a short beat and then loop it in the tracks view. We'll explain this in the 'Create a song in GarageBand', on page 118.

WANT MORE?

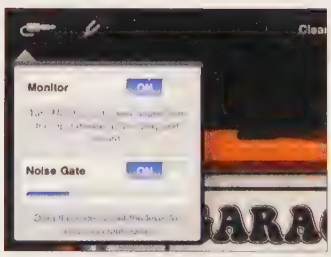
easyBeats

easyBeats is a great app for laying down drum beats. It allows you to create loops and send them as .wav files to your computer over WiFi

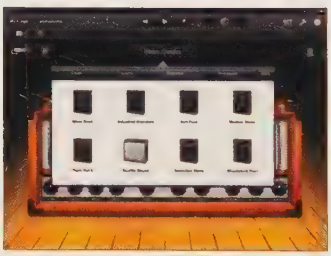
Recording real instruments and vocals

The iPad 2 is surprisingly well-equipped to record external sounds. The built-in mic is fine for quick song sketches and demos, while the 3.5mm jack doubles as an input if you use the appropriate third-party gadgets. Here we look at the guitar amps and how to record vocals.

1 Companies such as Griffin and IK Multimedia offer guitar input cables. They are relatively inexpensive and essential if you're serious about GarageBand. Plug in your guitar and select 'Guitar Amp' from the Instrument carousel.



2 You'll see a carousel of amps. Pick one, and tap the plug icon in the top-left. Turn 'Monitor' on so you can hear your guitar effects through your headphones. All the dials on the amps are movable, so you can set up your sound.



3 You can change your amp by pressing the amp name in the middle of the screen. This makes it quick and easy to hear how each amp sound is different. There are 'Clean', 'Crunchy', 'Distorted' and 'Processed' amp sounds.

4 Tap the icon that looks like a pedal in the top-right to set up your effects. You'll see a basic pedal set up. Tap the empty space to the right of it to see an array of effects, and create your ultimate pedal board.

WANT MORE? *Guitar Tuner*

The tuning fork icon next to the input plug icon takes you to an onscreen chromatic guitar tuner. This works through the mic as well as through whatever guitar input cable you are using.

5 Now your guitar is ready, try the 'Sampler' from the instrument carousel. This allows you to record a sound using the iPad 2's microphone. Tap 'Start' to record a sound, then tap 'Stop'.

6 Your sample will then be mapped to a keyboard and you can play it at different pitches. Depending on what you sample, you can get some very cool and very strange effects using this tool.

7 To record a vocal, go to the 'Audio Recorder' from the main instrument carousel. The icon looks like an old-fashioned microphone. You'll see a simple noise input gauge, and an arrow telling you where the mic is on the iPad 2.

8 Once you've recorded a vocal, you can play it back with effects added to it. The effects show up on your audio recorder screen once your vocal is recorded. They range from various reverb types to 'Robot' and 'Monster'.

NEED TO KNOW
Simple samples
On the sampler, you can tap 'My Samples' to see the sounds you've recorded, and also a library of stock samples such as dogs barking, laughter, and an "oh!" sound.

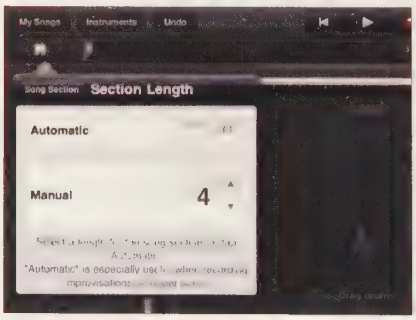
Turn the page to learn how to put all these instruments together... »»

Create a song in GarageBand

GarageBand's instruments tools are impressive, but the real fun starts when you start to put them together to make a song. We'll approach this as though we've already written the bones of a song and we want to use GarageBand to record and develop it.

1 Tap 'My Songs' (top-left) to start a new song. Press the '+' sign at the bottom. You can choose to create a new song or duplicate an existing song – useful for working on an alternative mix or version of one of your songs.

NEED TO KNOW
Auto Sections
Sections are great for structuring your composition, but if your song isn't quite ready yet, you can set the section length to 'Automatic'. This allows the section to last as long as you want – great for quickly laying down ideas.



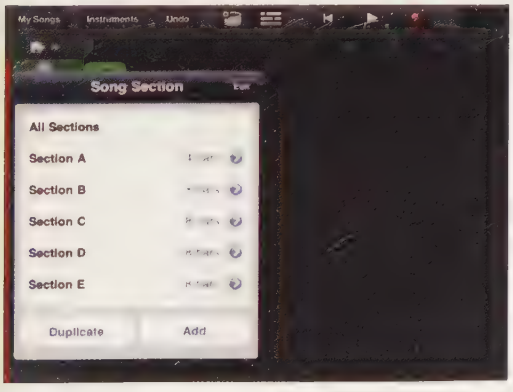
2 Pick your first instrument. We picked Smart Drums. Before you start playing, tap the icon (top-left) that looks like a jigsaw puzzle piece, and select how many bars you want the first section (say, the intro) to be.

3 Next, pick the tempo for your song. Tap the spanner icon (top-right) and toggle to your preferred tempo. You can also set the metronome to on or off here, and choose the key of your section.

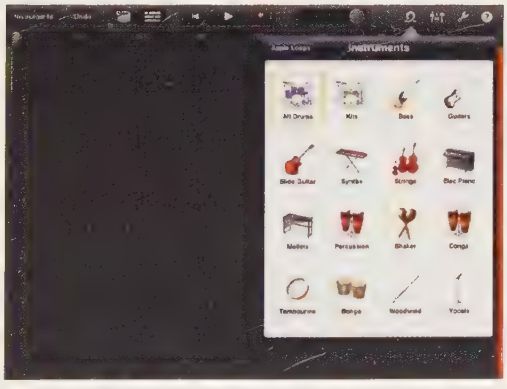
4 Set up the drum beat you want, and when you're ready, press the 'Record' button. The beat will play for the duration of your song section. You can see your recording progress as the bar at the top goes red.

5 Now tap the toggle view button at the top of the screen (directly to the left of the play/record buttons). You can now see your recorded intro on the timeline. Press 'Play' to listen back to it.

NEED TO KNOW
Metronome woe
Bear in mind that if you're recording using the iPad 2's mic and also using the iPad 2's speaker as your monitor, the metronome will be picked up on the recording. You're better off listening to the metronome using headphones.



6 Time to add another section. Press the jigsaw piece again, press 'Add'. We've set up the whole song here in sections, because we already know how it's structured. You can have up to 10 sections.



7 In the top-right of the tracks view is yet another option – the loop browser. This lets you preview hundreds of Apple loops and add them to your composition. There's everything from drums to vocal loops.

Continued on next page »»

8 We've now structured the drums for the whole song. You can copy and paste bits of recording by tapping segments of a track twice. This brings up a menu. Place the timeline marker where you want your clipping to start and tap ahead of it. A 'Paste' option will appear.

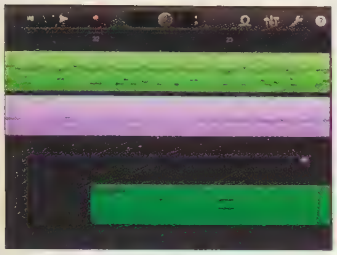
9 Copying and pasting means you can copy the best 'take' of a section multiple times, rather than try to play it perfectly twice. You can also move recorded segments around on the timeline. And you can trim by dragging the yellow box that surrounds segments.

10 Now add another instrument by pressing the '+' in the bottom left. This lets you select the type of instrument you want to record on the next track. Make sure you start in the right position on the timeline, and record.

11 As you build up your song, you can use the headphones icon next to a track to hear that track alone, or the crossed-out speaker icon to mute a track. These buttons allow you to concentrate on specific tracks.

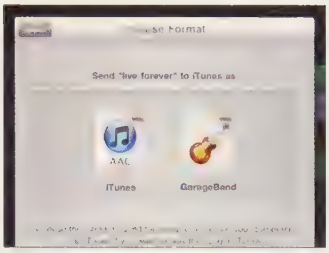
NEED TO KNOW: Demo song

Apple has installed a demo song on the iPad 2. It's twee as heck but shows you the kind of professional results you can achieve. Tap 'My Songs' then scroll to the song called 'Curtain Call – Demo'.



12 You can zoom in and out of the track view to get more detail or get an overview of its textures by pinching or spreading two fingers on the screen. Once you're happy with your creation, you're ready to export the song to iTunes.

13 Tap the 'My Songs' button again. The view will zoom out. Tap the name of the song to type in your own name for it. Then tap 'Done', and hit the arrow icon under the song title, then 'Send to iTunes'.



14 You will now be prompted to choose the file format of your song. If you're happy with it, send it to iTunes as an AAC audio file. You can also email this to your mates. Select 'GarageBand' if you want to work on it further on your Mac.

15 Next time you plug in your iPad 2 to your computer, go to iTunes and click your iPad 2 in the source list, then click the 'Apps' tab. Scroll down to 'File Sharing'. Click 'GarageBand' and your song will appear, with an option to save it.

NEED TO KNOW
More track options

The icon in the top right (it looks like a set of EQ controls) lets you edit pan, echo, and reverb levels to the selected track – yet more options to add effects to your sounds.

Make and edit films with iMovie

▶ Video editing on the iPad 2 is one of the experiences that really impresses when you start using the device. Apple's iMovie app, made viable by the iPad 2's dual-core processor, is astonishingly powerful.

Editing videos using the intuitive and responsive touchscreen interface is remarkably snappy. And, unlike many iPad apps, there are several important features that aren't immediately obvious to the user just by playing with the app. So, read on to find out how to make professional-looking movies on your iPad 2.

VITAL INFO

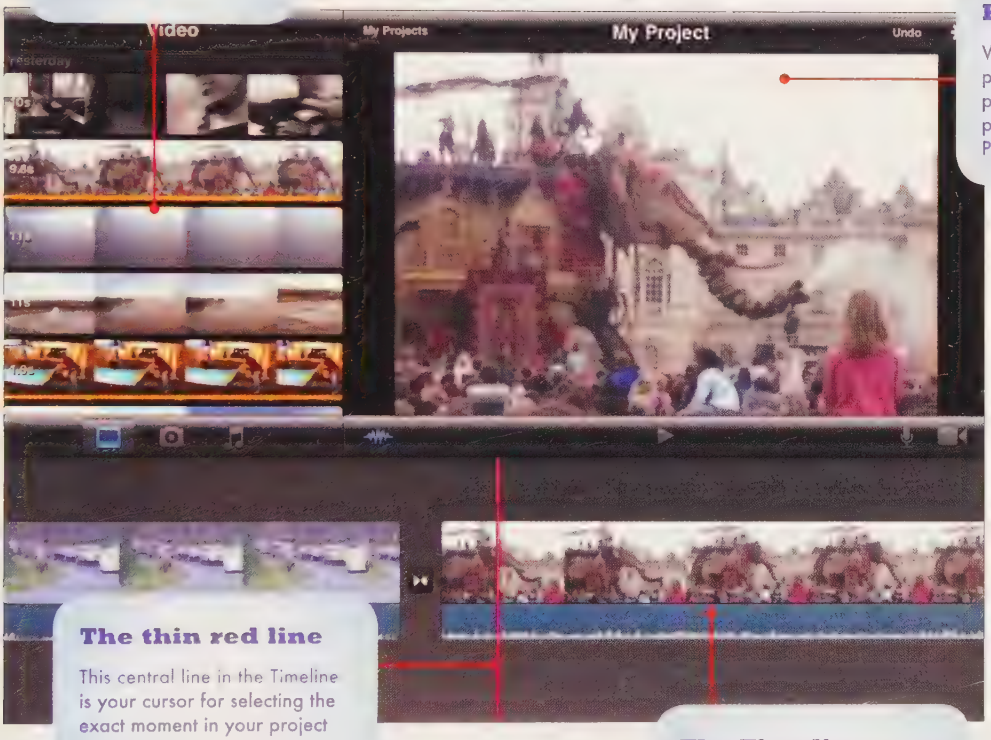
In this tutorial, you'll get to grips with [illegible] clips in iMovie, and then delve deeper [illegible] its feature set to craft more complex and sophisticated short films

What you need
iPad 2
Film clips to experiment with

Time required
1 hour

Clip list

Clips you've shot on your iPad, and clips you import from other devices, appear in this left-hand box.



Preview

While you edit, you can preview clips and your project as it stands by pressing 'Play' on the Preview window.

The thin red line

This central line in the Timeline is your cursor for selecting the exact moment in your project that you want to edit. Swipe left and right in the Timeline to move its position.

The Timeline

This is your main editing environment. Clips, sounds, and transition settings appear in here, and you can manipulate your structure with a few taps.

NEED TO KNOW

Supported video formats:

- H.264 video up to 720p, 30fps, Main Profile level 3.1 with AAC-LC audio up to 160Kbps, 48kHz, stereo audio in .m4v, .mp4, and .mov file formats
- MPEG-4 video, up to 2.5Mbps, 640x480 pixels, 30fps, Simple Profile with AAC-LC audio up to 160 Kbps per channel, 48kHz, stereo audio in .m4v, .mp4, and .mov file formats
- Motion JPEG (M-JPEG) up to 35Mbps, 1280 by 720 pixels, 30 frames per second, audio in ulaw, PCM stereo audio in .avi file format

NEED TO KNOW

Importing movies

iMovie is fussy about footage shot on other cameras. Make sure you have the correct format – see the box on the right for the supported formats.

The easiest way to get video from a camera into the iMovie app is using Apple's Camera Connection Kit. This is a hardware add-on made by Apple. It costs £25 and plugs into the iPad's dock connector. You can also load footage using the File Sharing feature on iTunes. Use any software that will convert video into an iPod touch/iPhone/iPad-friendly format (try Handbrake – handbrake.fr) and then share the files via iTunes. On the Mac, the desktop version of iMovie will do it.

Step-by-step guide »»

iMovie basics

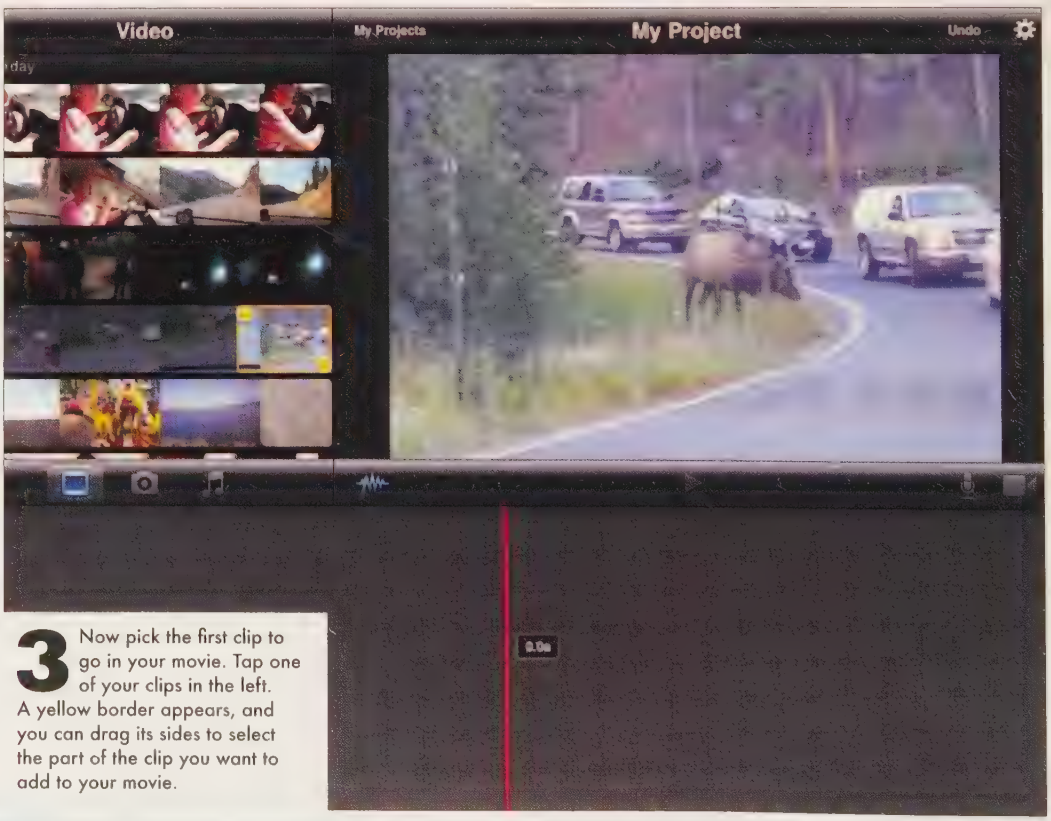
iMovie makes it a breeze to run video clips together, trim them and move them around. Here we show you how to get to grips with the simple features for creating your first iMovie project.

1 Fire up the app for the first time and you'll see this slightly twee welcome screen, based on a retro cinema. Tap the '+' sign to get started on a new iMovie project.

2 Here's the main interface. Movies that are stored in your iPad 2 show up in the box on the left. To start, tap the cog icon (top-right) and pick a theme. This selects preset title and transition styles.

NEED TO KNOW
Special effects

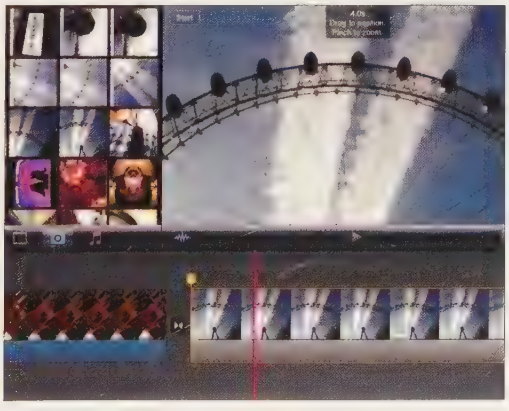
There are loads of video effects apps on the App Store. Provided it outputs video to your Camera Roll, you can use them to create clips for use in iMovie. Ubercam is a good, simple video effects app that is designed for the iPhone, but will run on the iPad 2. It costs 59p.



3 Now pick the first clip to go in your movie. Tap one of your clips in the left. A yellow border appears, and you can drag its sides to select the part of the clip you want to add to your movie.

4 When you've chosen the part of the clip you want to use, tap the blue arrow within it to send it into the bottom part of the screen. This is your movie's Timeline, where you will structure your film and do your editing.

5 You can also shoot video footage straight into your Timeline using the iPad 2's cameras. Tap the video camera icon on the right of the Timeline to turn on the video camera. When you've shot your footage, tap 'Use'.



6 To add photos to your movie, tap the camera icon below the clip list. You'll see your Camera Roll and Photo Library. Pick a photo and it'll zip into your Timeline. Change how long it will display for by dragging the trim handles.

NEED TO KNOW
Ken Burns effect

Photos on your Timeline are displayed with a 'Ken Burns' panning effect. This has face detection built in, so it'll pan for the optimum view of people in the shot.

Advanced editing

Now you've got the basic idea of how iMovie works, you can get stuck into the features and create some really cool videos. Some of its most powerful features are hidden, so it's vital to delve beyond that slick interface to discover just what it's capable of...

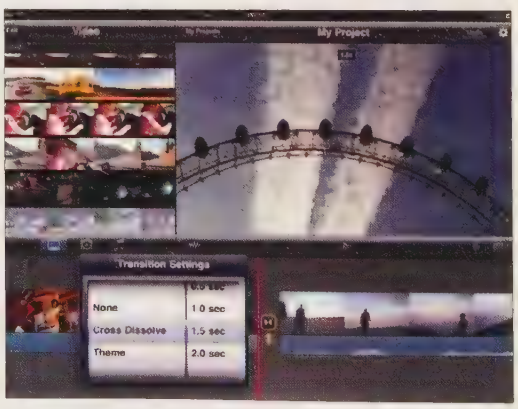
WANT MORE?

Add music

To add more [illegible] to your movie you'll have to export your finished movie to your Camera Roll, then pull it back into iMovie as a clip. You can then edit around it. See the next spread for how to export.

1 To change the order of clips, tap and hold a clip in the Timeline. It'll jump up under your finger. You can then drag it to a different position in the Timeline. Lift your finger to drop it into its new location.

2 You can also trim clips in the Timeline if you want to further cut them down from the segment you imported. Just tap the clip and drag the yellow trim handles, in the same way you did when you first imported the clip.



3 To change a transition (the way in which the movie moves between clips) double-tap the button between clips. Choose from several styles of transition including cross-dissolve, and set how long transition will take to complete.

4 The 'Precision Editor' allows you to line up the exact spot at which you want one clip to transition to the next. To open it, touch one clip with one finger and the other with another finger, and simultaneously push one up and one down.

5 Splitting clips into two is another useful feature. Tap a clip in the timeline, move the red line to where you want to make the split, and swipe downwards. This is particularly useful for making titles – as you'll see on the next page.

Blinking Lights And Othe...
My Project
Dust Of Ages
Old
Bride Of Theme From Blinking Lights
Hey Man (Now You're Really Living)
I'm Going To Stop Pretending That I...
To Lick Your Boots
If You See Natalie

6 To add a soundtrack to your movie, tap the musical semiquaver icon. You can then place music from your iPod library, or one of iMovie's built-in songs, into the Timeline. It only allows one song per movie (see Want More? on the facing page).

NEED TO KNOW
Sound waves

You can choose whether you want a graphic representation of your video's soundwaves to show up in your Timeline –toggle it on and off using the wavey line icon in the bottom-left of the Preview window.

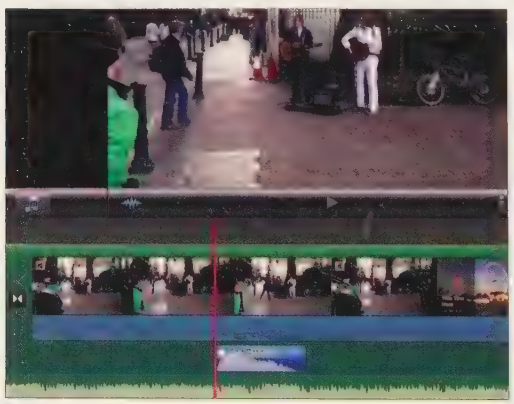
Polish and export your film

You've created a great movie, now let's add some finishing touches. This tutorial also shows you how to share your movie with your friends – and the world – when you're done.

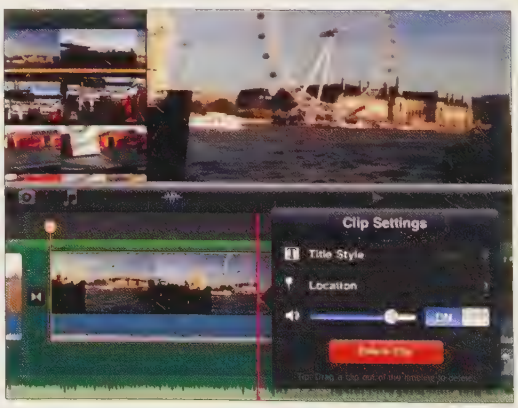
WANT MORE? Copy from iTunes

Using the iMovie File Sharing options in iTunes you can copy projects to your iPad 2 as well as from it, allowing you to edit compatible projects from your desktop on your iPad 2.

1 If you've created a kicking documentary – or you just want to explain what the heck is going on in your movie, you'll want to add a voiceover. Position the red line where you want to start and tap the microphone icon to bring up a voice recording button.



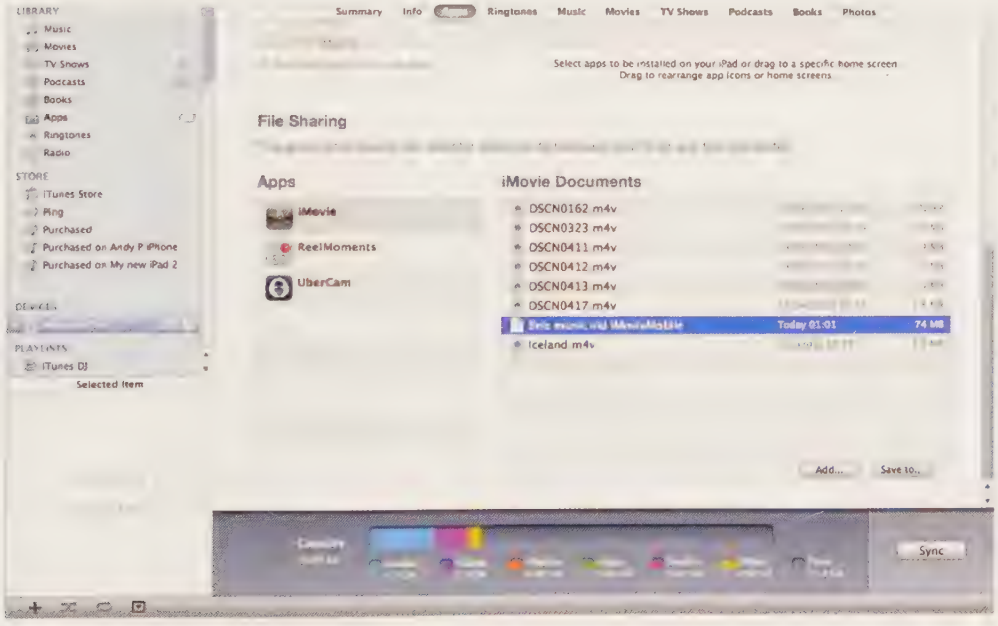
2 Apple has built in some (pretty cheesy) sound effects. Tap the semiquaver, then 'Sound Effects'. Make your choice and the sound effect will drop onto the Timeline, starting wherever the red line is positioned at the time.



3 You can also edit sound levels. Double-tap a clip to bring up options, including a sound level bar. You can also edit the sound levels of soundtracks, songs, and sound effects in this way, allowing you to tweak the sound mix to perfection.

4 Once you're satisfied with your creation, press the 'My Projects' button at the top of the screen. On the next screen tap 'My Project' to name your movie. This view lets you choose between projects and open them.

5 Tap the 'Play' button to watch the project full-screen. Or tap the curved 'Share' arrow to its right to choose from your sharing options. You can save to the Camera Roll, or send it to various social networks from within the iMovie app.



6 Sending to iTunes lets you save the movie onto your computer. With your iPad plugged in, open iTunes, click your iPad 2 in the Source List, and click 'Apps'. Scroll down to 'File Sharing' and pick iMovie. Your project will appear in the Documents list; click 'Save to...' to save it.

NEED TO KNOW
Universal apps

iMovie is a 'Universal' app, meaning the same download will work on your iPhone and iPod touch. So you can shoot on the smaller devices, then use iTunes File Sharing (or Apple's Camera Connection Kit hardware) to edit on the iPad 2.

Tweet from your iPad 2 with Twitter

▶ The Twitter app started life as an iPhone app called Tweetie, which was made by a third-party developer called Atebits. Twitter (the company) was so impressed with the way Tweetie brought Twitter's features to mobile devices that it bought it, rebranded it, and made it into its own, official Twitter client.

Now there's a dedicated iPad version: a simple, elegant piece of software that makes tweeting on the go incredibly easy. It allows you to post pictures, videos, and locations, as well as making it easy to interact with other users through hashtags and @replies. And now the iPad 2 has two cameras, the potential for sharing images and videos on the move is huge. Here's how to tweet on the iPad 2.

VITAL INFO

We show you how to get involved with the hottest social network on the planet – Twitter – from the comfort of your iPad screen

What you need
Twitter app (free from the App Store)
A Twitter account

Time required
10 minutes

Stream of tweets

This is the main interface. You can select to view tweets from your Timeline, tweets that mention you (@replies), and Direct Messages. You can also select to view your profile lists.

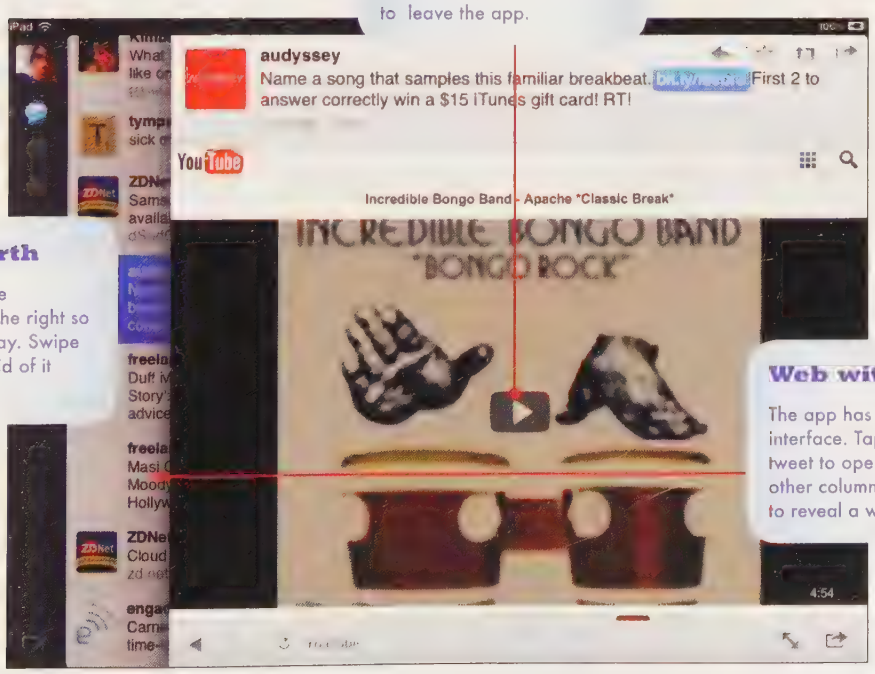
mowgliandy
Timeline
Mentions
Messages
Lists
Profile
Search
ZDNet
Samsung 4G LTE Mobile Hotspot update available to permit Canadian roaming
audyssey
Name a song that samples this familiar breakbeat. First 2 to answer correctly win a $15 iTunes gift card! RT!
freelancing_job
Duff McKagan Autobiography 'Not The Same Story' McKagan -- who writes regular financial advice columns for Playboy.com and SeattleW...
freelancing_job
Masi Oka to write, star in Syfy pilot: By Mike Moody, Entertainment Reporter According to The Hollywood Reporter, Oka is collaboratin.
ZDNet
Cloud brokering. Building a cloud of clouds
engadget
Carnegie Mellon's GigaPan Time Machine brings time-lapse to panoramas

Write your thoughts

At any point, you can tap this compose icon to fire off a tweet. Tweets must be under 140 characters long – a character count pops up when you start typing.

All in one

The app interface will show links, photos, and even play YouTube clips, with no need to leave the app.

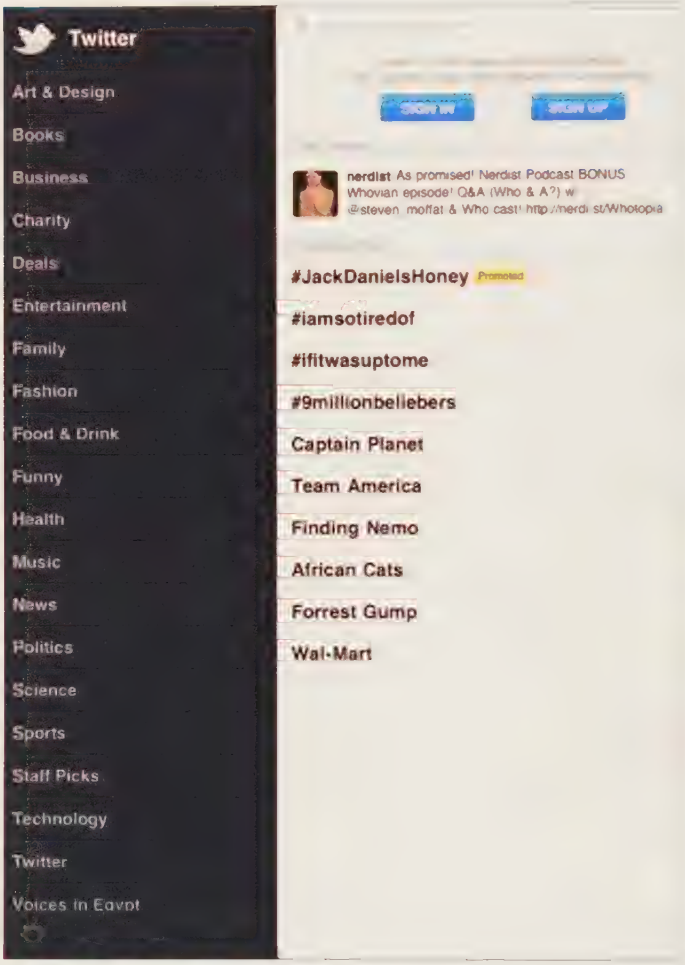

audyssey
Name a song that samples this familiar breakbeat. First 2 to answer correctly win a $15 iTunes gift card! RT!
YouTube
Incredible Bongo Band - Apache *Classic Break*
INCREDIBLE BONGO BAND
"BONGO ROCK"
4:54

Back and forth

Once you've read the webpage, slide it to the right so it moves out of the way. Swipe it right again to get rid of it completely.

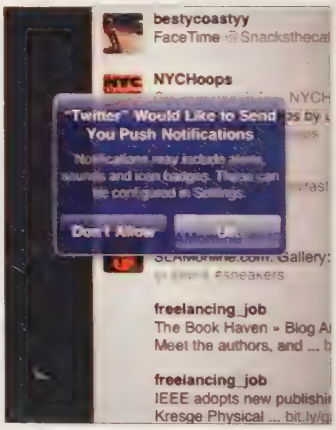
Web within

The app has a sliding interface. Tap a link in a tweet to open it, and all the other columns slide to the left to reveal a web browser.



1 Download the Twitter app and open it up. The first screen tells you, somewhat vacuously, that Twitter is "a whole thing". Ignore that and check out what people are currently saying about the subjects of the moment by tapping the Trending Now topics – or look through aggregated posts on particular topics on the left.

2 If you don't have an account, you can sign up to Twitter from inside the app. Press 'Sign up' and fill out the form. If you already have an account, you can simply tap 'Sign in' and enter your username and password.



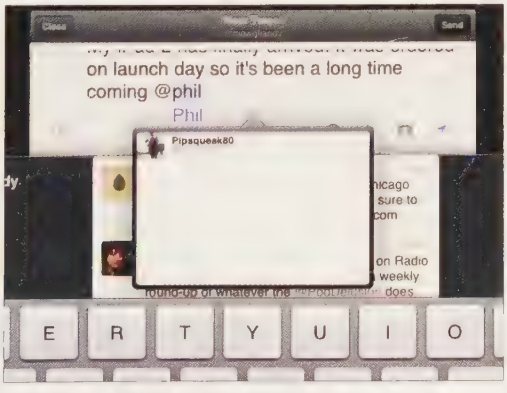
3 When you've signed in, you'll be asked if you want Twitter to use your current location. This information can be added to tweets. You'll also be asked if you want Twitter to 'push' updates to you as they happen.

EXPERT TIP

4 Tap the cog icon to go to Settings. Tap 'Advanced' to set your preferences for sharing pictures and videos – your picture-sharing service is set to use yfrog by default, but there are loads of other services to choose from.

Close
Send
Psythor
Listening to
's new show on Radio 4 Extra. Great idea. If only R4 needed a weekly round-up of whatever the
does

5 When you have all your settings just as you like them, you're ready to tweet. Tap the compose icon (bottom-left) and type away. Tap the camera icon to add a picture. The compass symbol embeds your location in the tweet.



6 Finally, tap the '@' sign to choose people to send the tweet to. A list appears and you can simply select your friends from the list. The hash sign lets you add a 'hashtag' – a symbol that makes your tweet easy to search for.

WANT MORE?
TweetDeck

The Twitter app is great for Twitter, but if you want to add Facebook into the mix, all from one app, try TweetDeck (free). This app allows you to input your Facebook details and manage both networks from the same place

Edit images using Photogene

▶ Most of us manage to stockpile lots of digital images but getting around to sorting them out isn't always easy or convenient. Photogene makes this task straightforward and even enjoyable.

This handy software package is the ultimate editing tool for photos stored on your iPad, with an array of simple but effective features that can help you get images looking their best, but also enable you to organise your photos into a neat and tidy archive collection.

Within a few taps of the screen, it's possible to enhance photos with multiple colour adjustment options and sharpen shots that are less than perfect.

You can swiftly crop and straighten images, and add fun effects to spruce up shots, using text balloons, frames and decorative filters. Read on to start exploring the power of Photogene...

VITAL INFO

This tutorial will show how to get the best from image-editing app Photogene and will require you to download the app from iTunes have an iPad running iOS 4 or later and some digital images.

What you need
Photogene app
Your iPad 2
A selection of photos to play with

Time required
At least an hour

Quick edit

Photogene makes it easy to carry out edits using Presets if you don't have time for more specific custom touches. Simply tap the screen here.

Make no mistakes

Don't worry about ruining an image – the step back and forward buttons allow you to backtrack and redo actions. If you've really messed up, tap 'Original' to return to square one.

When you've finished

Once you're happy with your editing, a tap of the 'Done' button in the top right-hand corner will return you to your photo collection.

Choose a setting

Preset options are in the box along the bottom. These include colour, black and white, vintage, and fun – and you can create your own.

Size it up

Images can be cropped and rotated, then prepared for exporting. Photogene allows you to export shots through a selection of services, including Twitter and Facebook.

Print it out

Another handy option is to output images straight to a printer. Select this option from the 'Export' menu and send the shot on its way.

NEED TO KNOW Brightness and contrast

Use the Photogene Histogram bars to quickly adjust common issues, such as the brightness and contrast in your image. The right-hand bar determines the brightness levels, while any distance between the bars will edit the contrast levels. Another route is to use the assigned buttons on the Exposure page.

Get your pictures perfect

This tutorial will take you through the steps for editing digital images using Photogene. Within a few taps it's easy to crop, rotate, adjust colour, retouch and enhance your shots. It's also possible to annotate with text boxes, enhance with frames, borders and effects. When you're happy you can export images to Flickr, Facebook and email, or print them.

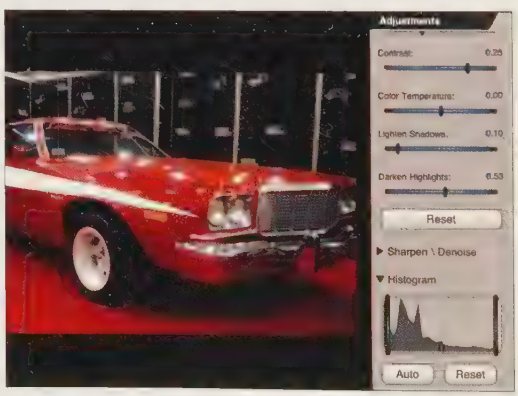
NEED TO KNOW

Metadata

If you'd like to get more information of the data stored in your image file then click on the 'Metadata' tab in the top right hand corner. This will display the format, resolution, file size and so on.

1 Core tools are found in the menu along the bottom of the Photogene app. Simple tasks such as cropping can be done manually or with the assistance of presets over on the right. Select 'Original' in the top left if you want to undo your changes and start all over again.

2 Rotating images is the work of an instant too, using either the one-touch screen-tap options or by straightening a shot in small increments using the Angle straighten slider on the right hand side. Press 'Reset' if you overdo the adjustments.

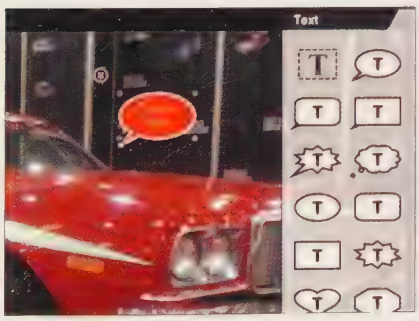


3 The 'Adjustments' tab offers a fairly powerful array of image editing options, with everything from contrast and colour temperature through to sharpening tools on offer. Use 'Auto' for quick one-touch results and 'Reset' to undo any mistakes.

4 There are some cool effects to be found within Photogene, which allow one-touch transformation to be applied to any kind of image. This can be done to a collection of images in quick succession too using the likes of 'Noir' or '70's Vintage'.

WANT MORE?
Filterstorm

This $2.99 app offers a sophisticated 'add on' photo-editing software to your iPad. Lots of different layers and effects, colour correction and more complex tools such as cloning for pinpoint image work.



5 Another handy option to click on is the 'Text' tab in bottom-right. This provides you with a selection of predesigned speech boxes that can be added to an image in order to annotate it, or add a fun comment to proceedings.

6 For more photo-based fun, try picking something from the 'Enhance' tab. This has a whole range of effects and filters, including these one-tap options that apply a funky new look to any kind of digital image.

Surf your world in style with Flipboard

▶ If we're talking innovative apps, Flipboard is one of the first names to come up. Essentially a news and features aggregator, Flipboard presents news from an infinite number of sources from across the Internet and social networks in a beautifully designed and intuitive interface.

It essentially creates a unique magazine, specially tailored to your tastes and interests. Tap in your Twitter and Facebook details and it'll even add news and recommendations from your friends into the mix.

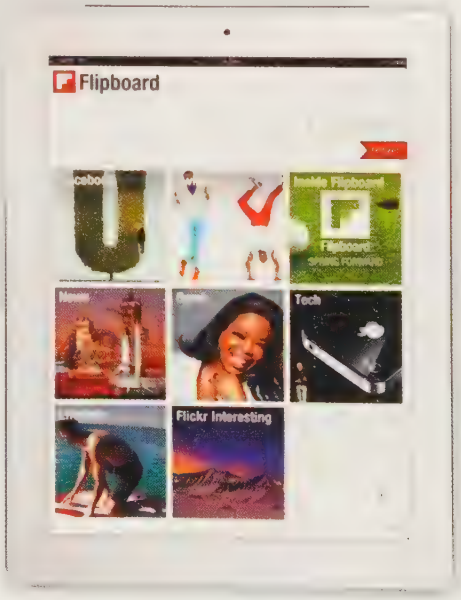
Flipboard combines incredible scope with an innate stylishness that sets it apart from most news-based apps. Put simply, it's brilliant – and at just £1.19, it's a steal.

VITAL INFO

Create your own personal magazine with news and social updates with Flipboard You'll be set up and immersed in no time.

What you need
iPad 2
Flipboard app (£1.19 from the App Store

Time required
Plenty of time to read and consume information!



Style and substance

Flipboard is just so good-looking. Fire it up for the first time and you'll be presented with full-screen photos. Many are arty, but posts from Oprah.com appear with alarming regularity, so you'd better enter your own preferences sharpish.

Swipe to go

drag the 'Flip' button as if you're turning the page to get started. A tap isn't enough to turn this page, unlike on iBooks.

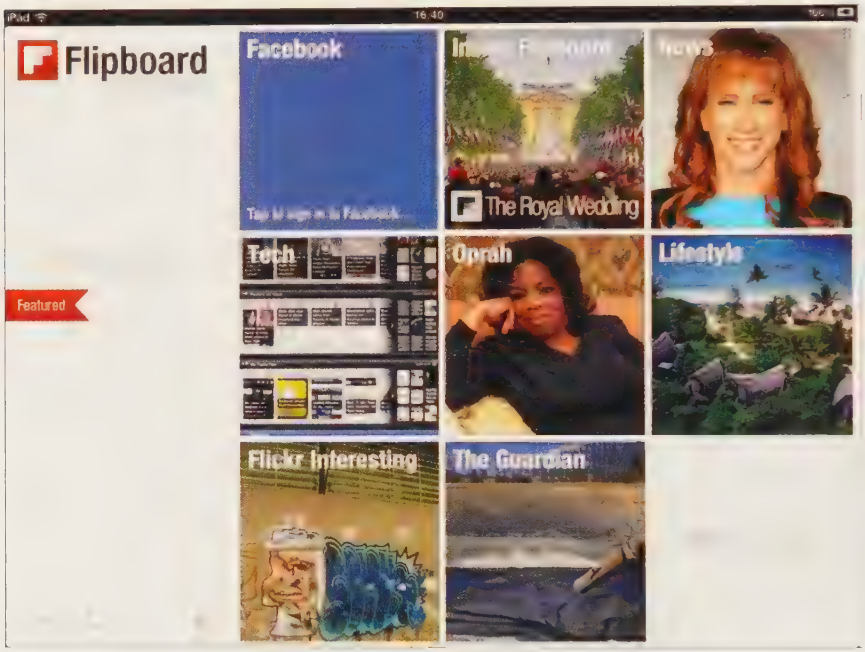
Sources galore

This tiny panel of icons shows you where the picture on the screen is coming from. You can tap along the row to pick something else if Oprah's hogging the limelight.

Step-by-step guide »»

Pick your favourite news sources

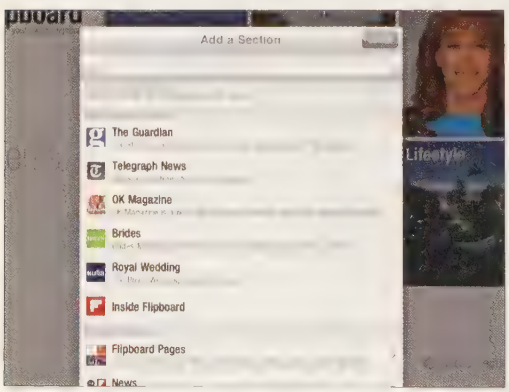
Flipboard is easy to set up, and equally easy to spend hours getting lost in its sleek web of information, features, and news. Here's your step-by-step guide to getting started with this very clever app.



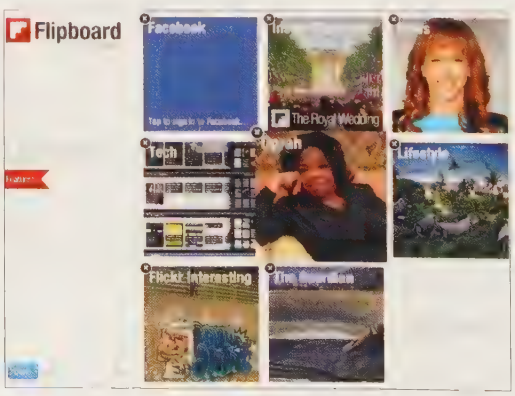
NEED TO KNOW
Share your stories

When you're reading an article, you can tap the buttons at the top-right to retweet it, tweet it @ the source, or email it to a friend.

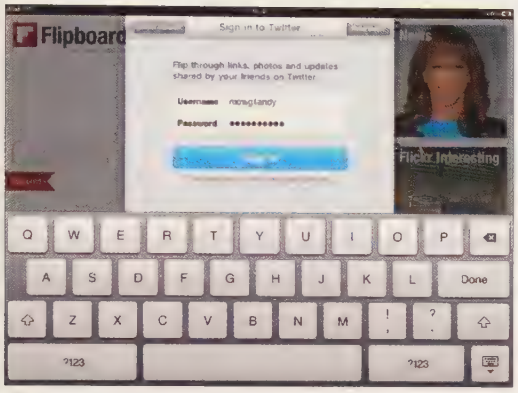
1 Flip the page from the photographic intro and you'll see this intro page, filled with different 'channels'. You can tap any of these sources to read articles. The 'News' button pulls articles from a variety of sources, including CNN and *The Economist*.



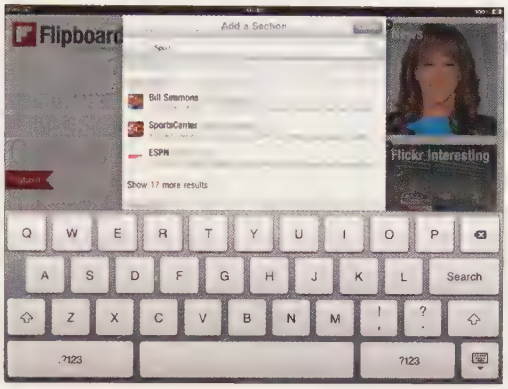
2 Tap 'Add a Section' to start personalising your Flipboard. Start by browsing the featured news sources. Simply tap a source to add it to your Flipboard. Like all good Apple fans, we're going to add *The Guardian*'s news feed.



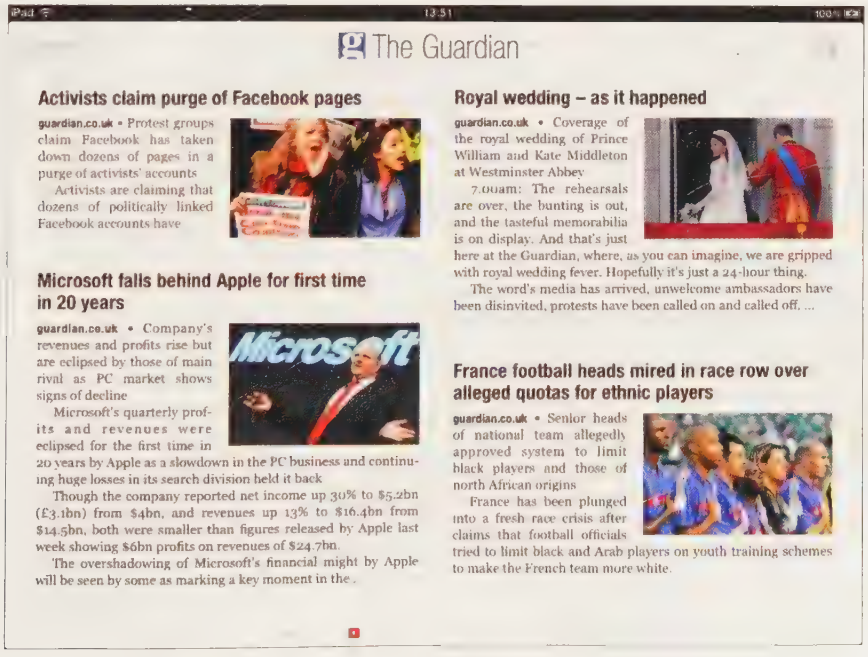
3 Simply tap a feed to add it to your news front page. As we mentioned, we could live without this much Oprah. Tap 'Edit' on your 'Contents' page. Then tap the 'x' icon on any of the sources that you want to ditch.



4 Now we're going to sign into Twitter and Facebook so that we can use Flipboard to read our social updates as well as news updates. Simply tap the respective icons on the Contents page and enter your details.



5 Search for new sources of news in the Search bar when you tap the 'Add a Section' button. We're looking for some sports news; Flipboard itself curates a sports feed. Scroll down and you'll find related Twitter feeds and Facebook pages.


iPad
13:51
100%
The Guardian
Activists claim purge of Facebook pages
guardian.co.uk • Protest groups claim Facebook has taken down dozens of pages in a purge of activists' accounts
Activists are claiming that dozens of politically linked Facebook accounts have
Microsoft falls behind Apple for first time in 20 years
guardian.co.uk • Company's revenues and profits rise but are eclipsed by those of main rival as PC market shows signs of decline
Microsoft's quarterly profits and revenues were eclipsed for the first time in 20 years by Apple as a slowdown in the PC business and continuing huge losses in its search division held it back
Though the company reported net income up 30% to $5.2bn (£3.1bn) from $4bn, and revenues up 13% to $16.4bn from $14.5bn, both were smaller than figures released by Apple last week showing $6bn profits on revenues of $24.7bn.
The overshadowing of Microsoft's financial might by Apple will be seen by some as marking a key moment in the
Royal wedding – as it happened
guardian.co.uk • Coverage of the royal wedding of Prince William and Kate Middleton at Westminster Abbey
7.00am: The rehearsals are over, the bunting is out, and the tasteful memorabilia is on display. And that's just here at the Guardian, where, as you can imagine, we are gripped with royal wedding fever. Hopefully it's just a 24-hour thing.
The word's media has arrived, unwelcome ambassadors have been disinvited, protests have been called on and called off, ...
France football heads mired in race row over alleged quotas for ethnic players
guardian.co.uk • Senior heads of national team allegedly approved system to limit black players and those of north African origins
France has been plunged into a fresh race crisis after claims that football officials tried to limit black and Arab players on youth training schemes to make the French team more white.

6 To read your news, simply tap one of your feeds. The news is presented in a beautiful magazine-style interface. Flip right to move onto something else. Tap 'Contents' in the top-left to go back and pick another feed.

WANT MORE?
Zooming

Double-tapping an article opens it in Flipboard, and below the Flipboard layout you'll see the article as it appears on the source's website. You can zoom in on this, and the links are clickable, too.

PCalc: The best calculator ever

▶ PCalc is a hugely impressive app from UK developer James Thomson. It is a powerful calculator that's equipped with scientific, statistical, and programming modes. It supports Reverse Polish Notation (so you can add three and four by writing 3 4 +) and also hexadecimal, octal, and binary calculations.

The iPad version offers a beautiful interface that uses every precious inch of the screen, so you can display the tape registers, calculations and the calculator keyboard, all at once.

You can email tape and calculation registers, and there's a huge number of useful tools for everything from force and temperature to currency conversions and beyond. Bored of the default theme? No problem, you can choose another. The full version costs £5.99; a free version with a slimmed-down feature set is also available. PCalc is quite simply the best calculator around.

VITAL INFO

We're going to familiarise ourselves with PCalc's user interface. We'll use the app to convert currency and to calculate how many iPads it would take to stretch around the world.

What you need
Your iPad 2
PCalc app (£5.99)

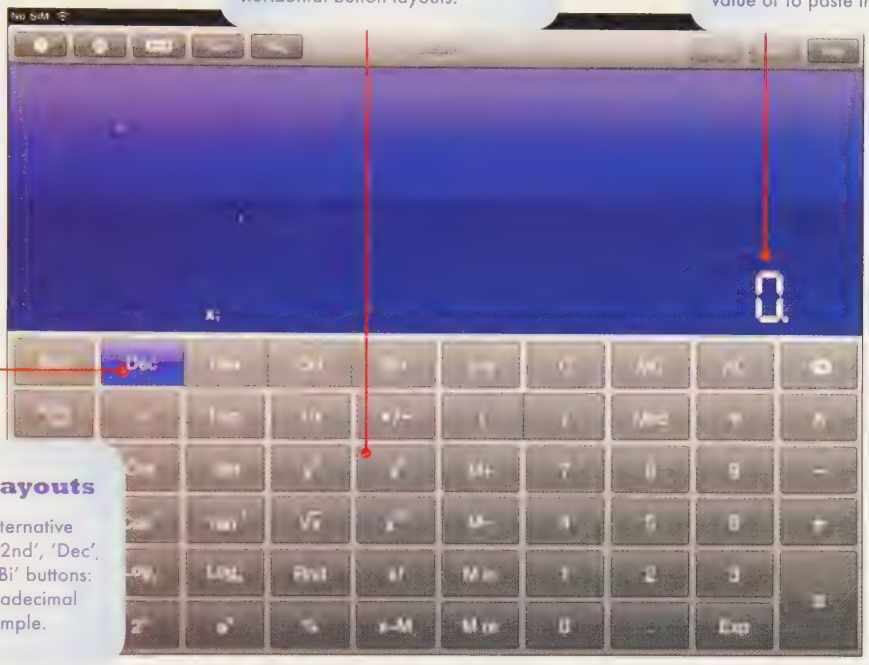
Time required
20 minutes

Input zone

The keyboard offers all the functions you'd expect to find on a powerful calculator. Rotate the iPad sideways to get to the horizontal button layouts.

What's happening

As you'd expect, the area above the keyboard shows your calculation so far. Double-tap the LCD screen to copy the displayed value or to paste in another.

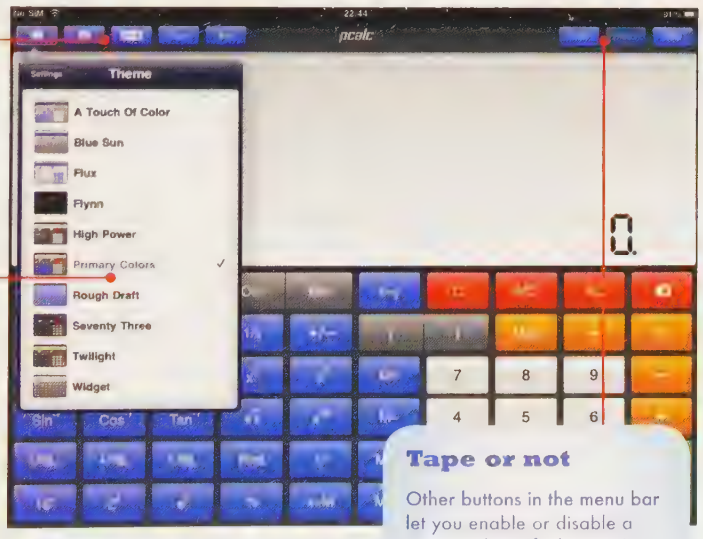


Alternate layouts

You can enable alternative layouts using the '2nd', 'Dec', 'Hex', 'Oct' and 'Bi' buttons: 'Hex' raises a hexadecimal keyboard, for example.

Command this

These controls beside the 'Settings' button let you access pre-set physical determinants, such as astronomical distances. A-B offers you numerous standard conversions.



Theme me

You can change themes within the 'Theme' menu inside the 'Settings' menu, accessed by tapping the 'i' button in the top left. This one is 'Primary Colors'.

Tape or not

Other buttons in the menu bar let you enable or disable a tape readout of what you're doing. There are also 'Undo', 'Redo' and 'Help' buttons.

EXPERT TIP

We're all about Multi-Touch on iPad, right? PCalc is no exception – it will undo the last calculation with a flick of the finger to the right, while a flick left will

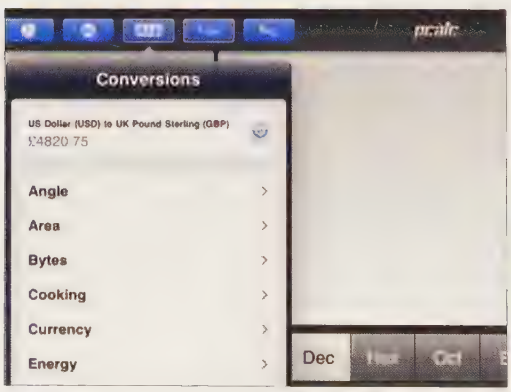
Calculations at your fingertips

PCalc has everything you need to perform extremely complex calculations. You might use it to figure out the space inside an atom, or to perform a currency conversion, or to figure out how many iPads it would take to stretch around the world's equator.

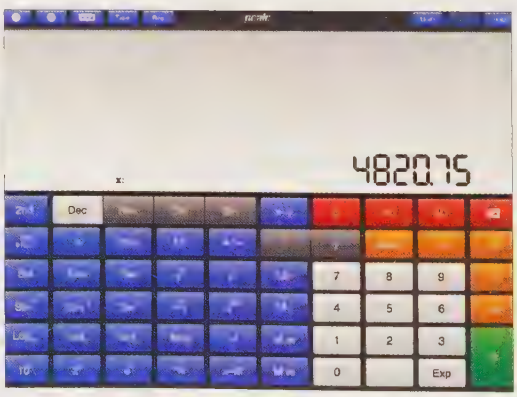
NEED TO KNOW
In joke

Look out for the little joke in the Constants > Universal folder: PCalc tells you the Ultimate Answer, which all Douglas Adams fans know is 42 – also the name of the Constants command.

1 Using the calculator buttons, input the value of the currency or other quantity you want to convert, in this case we want to run a currency conversion on the amount of $7,852. To access the built-in conversion tool look to the top left menu bar, and tap the A-B button.

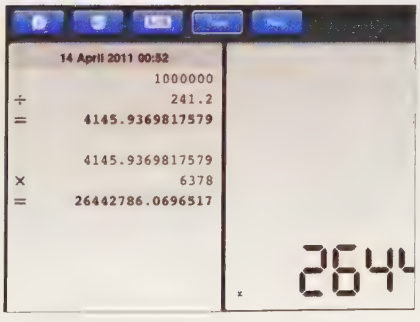


2 Tap 'A-B' and the Conversions menu appears. Here you'll see a list of available conversion presets. Now tap Currency and you'll see a list of available currency exchanges. Select US Dollars (USD) and a menu appears for the exchange.

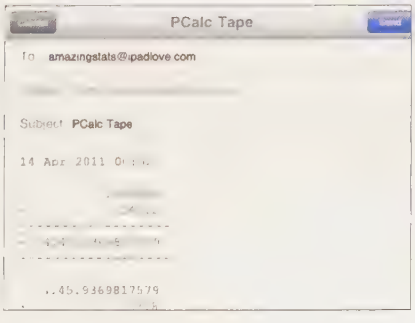


3 This shows you all the current currency rates for the dollars you are converting. Currency rates are automatically updated based on data from the European Central Bank. Tap the currency you want to convert to and the amount shows in the main screen.

4 How many iPads does it take to stretch end-to-end around the equator? Tap the '42' button to reach the Constants menu, in the Astronomical section you'll find the equatorial radius of the earth – 6,378km. An iPad is 241.2mm long, or 0.0002412km.



5 With 4,145.9 iPads to the kilometre PCalc tells us it would take just over 26 million iPads to stretch around the world at the equator. Hit 'Tape' in the top left menu and you'll see the calculations you just made.



6 You can share your calculations. Tap 'Email' and a message window appears so you can send the data, or tap 'Copy' to save calculations elsewhere. Double-tap a value to copy it – PCalc supports copy and paste and multiple clipboards.

WANT MORE?
Calculator HD

Calculator HD for iPad (59p) is a different take on a calculator for the iPad. It also offers alternate layouts and a paper ticker tape display.

Find just the right word with Writer

▶ Stephen Fry – who is renowned for his love of all things Apple – calls Information Architects' Writer "astonishingly simple". The QI host says he appreciates the app's design because it delivers all the tools you need for creative writing using an iPad through a blissfully straightforward interface that won't distract you while you work. So how do you get to grips with Writer?

First, don't be put off by the plainness of the interface: Writer does away with all the bells and whistles you might expect from word-processing software. What Writer does brilliantly is eliminate all the fuss so that you can focus on finding just the right words to communicate your ideas with with clarity and cohesion.

What it won't do is enable document layout, HTML export or the creation of stylesheets. With Writer, it's all about the words – so let's get started with exploring this essential app.

VITAL INFO

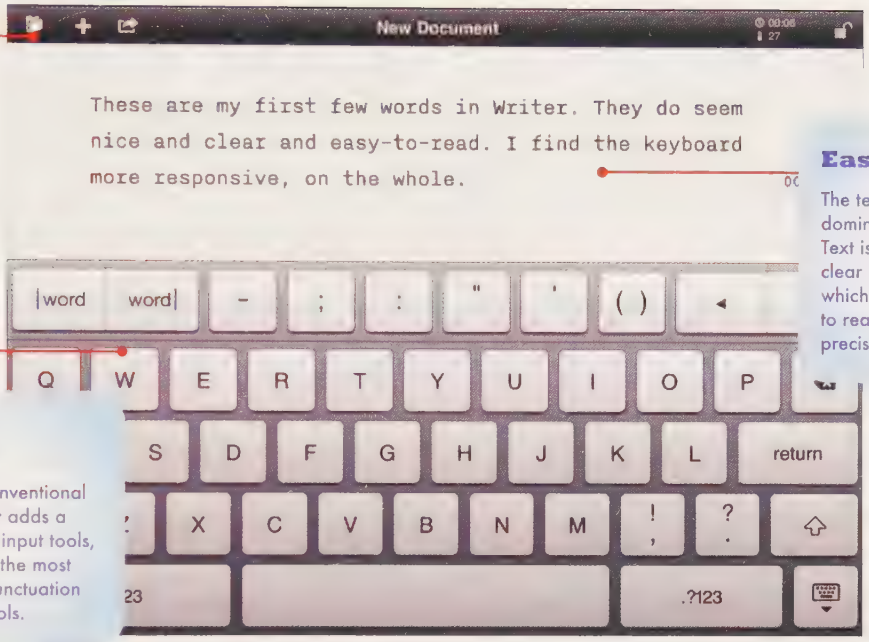
In this tutorial you'll learn how to create a document using Writer's Focus Mode. You'll also learn how to sync this with your Dropbox account.

What you need
An iPad
Writer (59p from the App Store)
Text to work on

Time required
Half an hour

Simple by design

The Folder icon lets you navigate between documents, the '+' lets you open new documents, while the curved arrow emails or copies text.


New Document
These are my first few words in Writer. They do seem nice and clear and easy-to-read. I find the keyboard more responsive, on the whole.
|word
word|
return
.?123

Easy to read

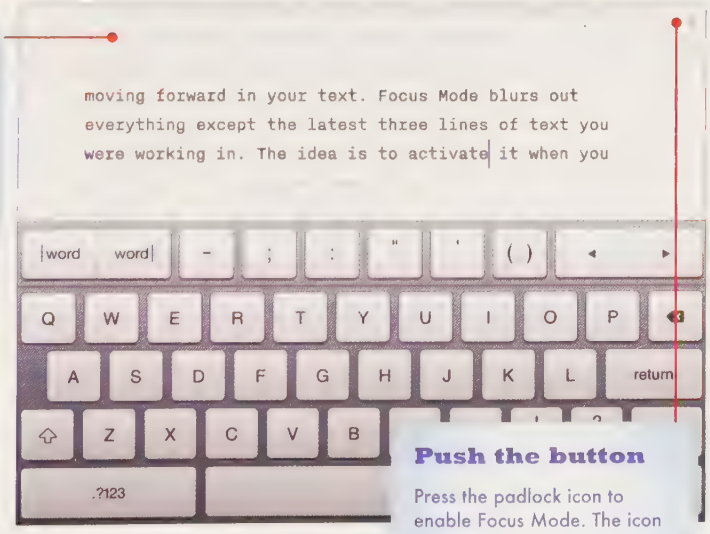
The text entry window dominates the screen. Text is displayed in the clear Nitti Light font, which forces the eye to read slowly and precisely.

A better keyboard

Writer uses the conventional iPad keyboard but adds a useful new row of input tools, including keys for the most frequently used punctuation and navigation tools.

Focus, focus, focus

Writer's Focus Mode helps you concentrate. Enable it to blur everything except the latest three lines of text you are working on, reducing mental distraction.


moving forward in your text. Focus Mode blurs out everything except the latest three lines of text you were working in. The idea is to activate it when you
|word
word|
return
.?123

Push the button

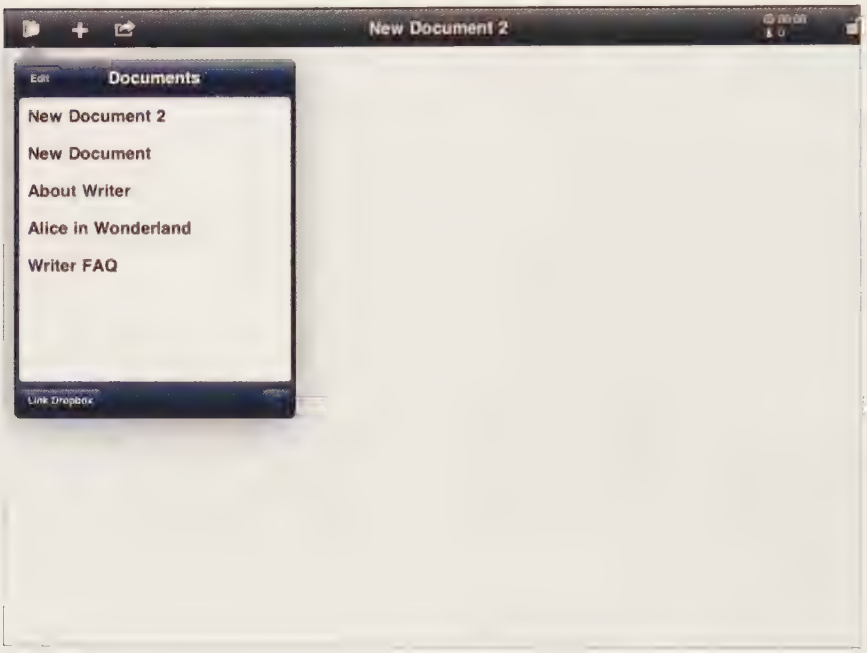
Press the padlock icon to enable Focus Mode. The icon changes to a locked padlock and most text is blurred. Press it again to change mode.

EXPERT TIP

The numbers at left of the padlock show you how long what you're writing takes to leave (top) and how many words you've written (bottom).

Working Writer

There are times in every working writer's life when you face a blank page with a blank brain. When this happens you need tools that help you focus. It's time to write like Writer can – no distractions.

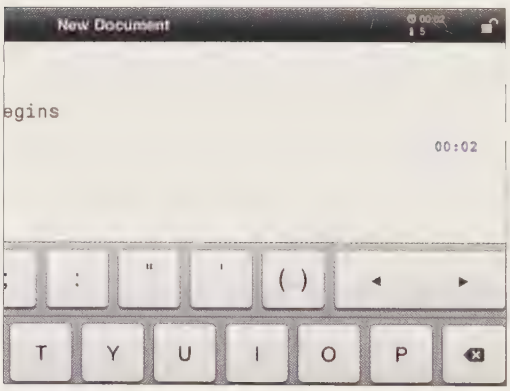


NEED TO KNOW
Improving iOS

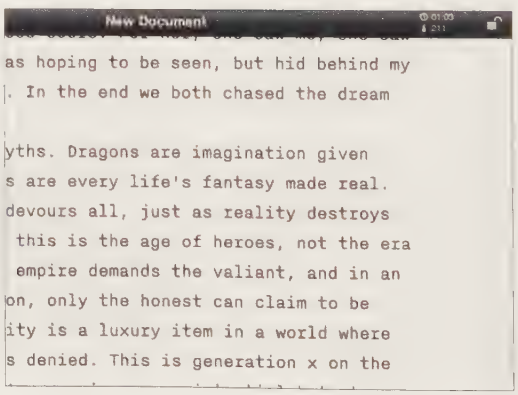
|word word|

Writer offers two iOS word processing tools: |word and word|. These allow you to easily take the cursor to the beginning or end of a word.

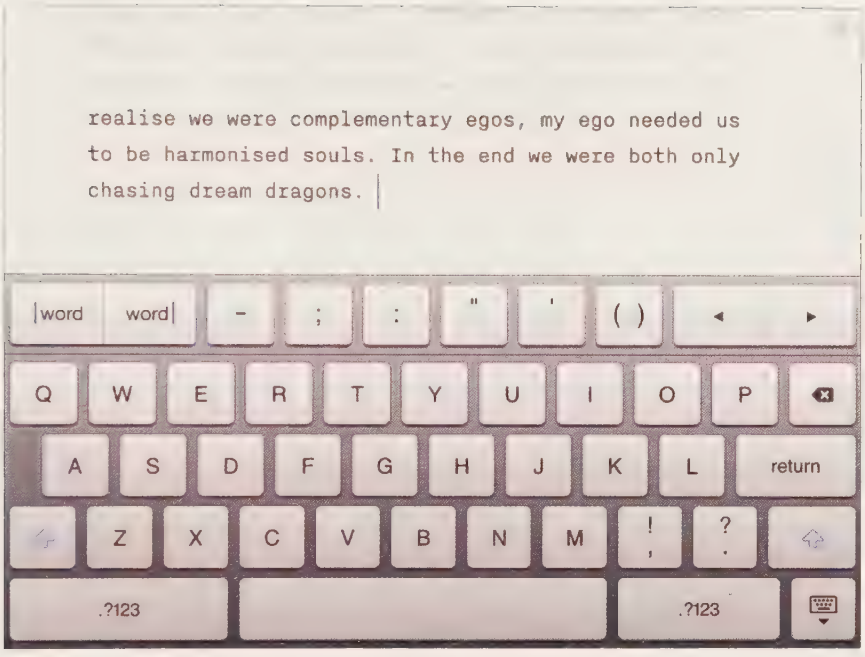
1 Launch Writer. An empty screen appears. Click the '+' icon at the top-left to open a new document. This is when you begin writing – or click on the Folder icon, also at the top left, to choose from other existing Writer files.



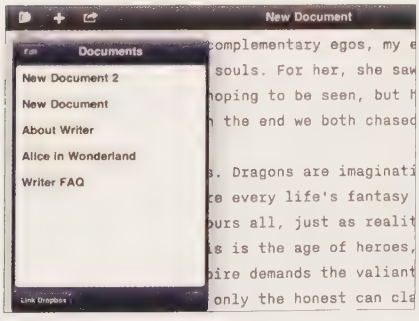
2 At the top-right, just beside the Focus Mode padlock, there's a clock icon. Here you'll see numbers showing you how long what you've written so far should take to read. These also show in blue to the right of the text.


New Document
as hoping to be seen, but hid behind my
. In the end we both chased the dream
yths. Dragons are imagination given
s are every life's fantasy made real.
devours all, just as reality destroys
this is the age of heroes, not the era
empire demands the valiant, and in an
on, only the honest can claim to be
ity is a luxury item in a world where
s denied. This is generation x on the

3 If you get stuck or find yourself reading and re-reading what you wrote before while dreaming up the next line, tap the padlock icon and only the three current lines of text will be clear. Focus on these and free your writing mind.


realise we were complementary egos, my ego needed us to be harmonised souls. In the end we were both only chasing dream dragons.
|word
word|
Q W E R T Y U I O P
A S D F G H J K L
return
Z X C V B N M
.?123
.?123

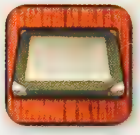
4 To quit Focus Mode, hit the closed padlock icon. In the next screen you can click the bottom-right keyboard and arrow icon to make the keyboard disappear so you can focus on what you've already written. Tap anywhere on the display to regain the keyboard.



5 If you have a Dropbox account you can share your new document using the service. Click the Folder icon (top-left) and look for the 'Link Dropbox' command at the bottom of the menu (see page 150 for a Dropbox tutorial).

6 Enter your Dropbox details (you will need to register) and in future you can choose for all your Writer documents to be made available via your Dropbox account. You can get Dropbox for your Mac, iPhone and many other devices.

WANT MORE?
Desktop



Want more powerful combined research and writing tools for your iPad? Try Desktop (59p), which lets you run apps beside each other in one screen.

Use Dropbox like a pro

▶ Dropbox is everything Apple's iDisk should be – free, easy-to-use and robustly cross-platform. All you need to do is pop your files into your Dropbox folder on one computer and they'll automatically appear on any of your other computers that you have installed the software to – whether they are Windows, Mac or Linux.

Dropbox apps are available for iPhone, iPad, and other devices. Everything in your Dropbox is also available from the company's website, so you can use it on computers that you haven't set up with a Dropbox folder of their own.

It's a fantastic tool that helps you stay productive while you're on the move and you can share files just by sharing a link. You can even create files on your iPad and upload them to your Dropbox folder for easy access and sharing.

You get 2GB of storage space for free and gain more free storage for inviting friends, while paid versions (from $9.99/£6 a month) offer more capacity and unlimited undo, so that you can see previous versions of documents.

VITAL INFO

This tutorial will get you started with exploring this service's powerful, yet useful, features: sharing files and working with images.

What you need
Your iPad 2
A Dropbox account
The Dropbox app (free)
Files, images or other data you want to share or access from multiple devices

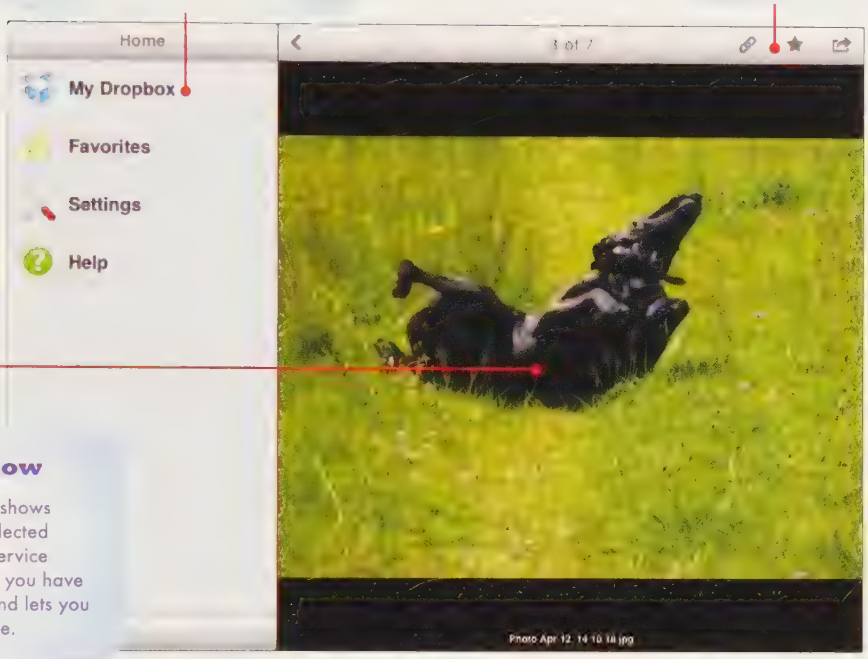
Time required
Half an hour

Navigating Dropbox

Getting around in Dropbox is easy. Access various account features from the Home menu: access files using My Dropbox, change settings and get help.

The power of three

These icons let you share files from your iPad, open them natively using another App, and classify some files as 'Favourites' for speedy access.



Main window

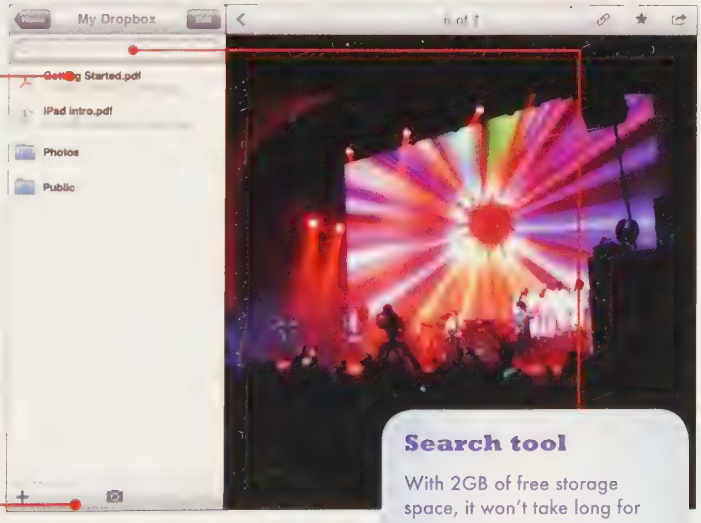
The main window shows the last file you selected in Dropbox. The service understands when you have images selected and lets you scroll through these.

EXPERT TIP

You can scroll through your images in full-screen view. Just tap the arrow button beside the 'Edit' button to access it. Use 'Edit' to remove unwanted files.

My Dropbox

Dropbox offers Help documents in PDF format, with a 'Photos' folder for images. Files put in the 'Public' folder get their own link for sharing.



More tools

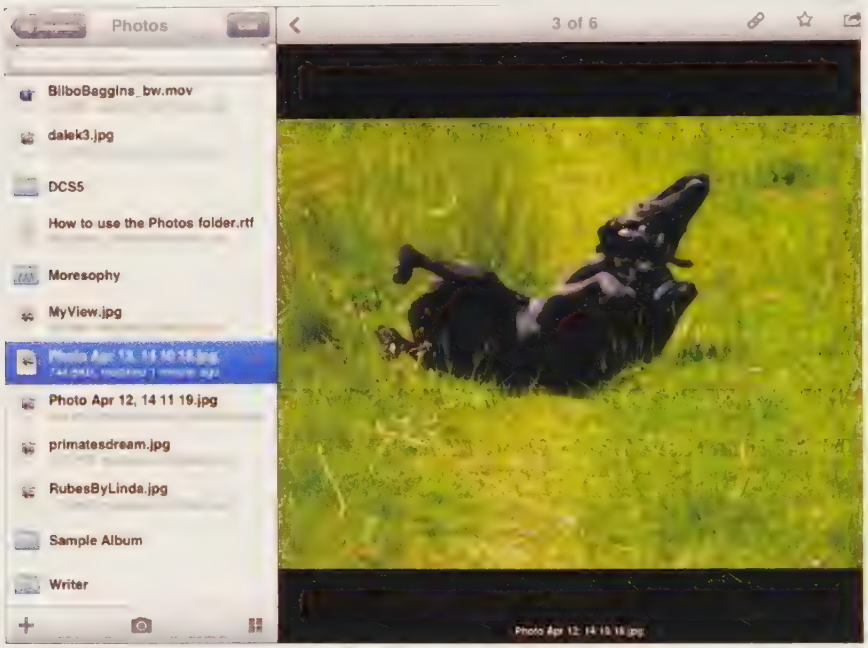
Use the '+' icon here to create new folders in which to stash your files. The camera icon lets you work with photos and video.

Search tool

With 2GB of free storage space, it won't take long for your Dropbox to get pretty busy. Use the search bar to track down what you need.

Getting to know Dropbox

Apple's chief designer Jonathan Ive has spent a lot of time explaining how hard it is to develop powerful products that seem simple. Dropbox certainly ticks Ive's boxes: it's extremely slick, stripped-down and simple to use, but conceals huge complexity. Sharing files with others has never been easier – even large images or videos.

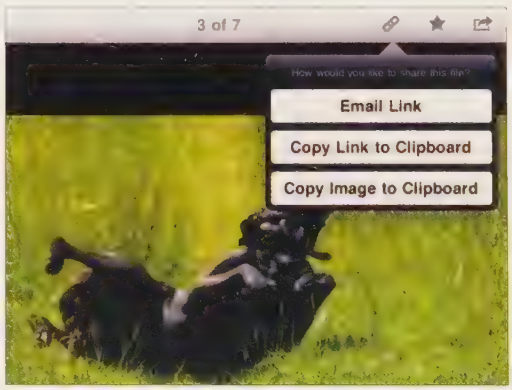


NEED TO KNOW

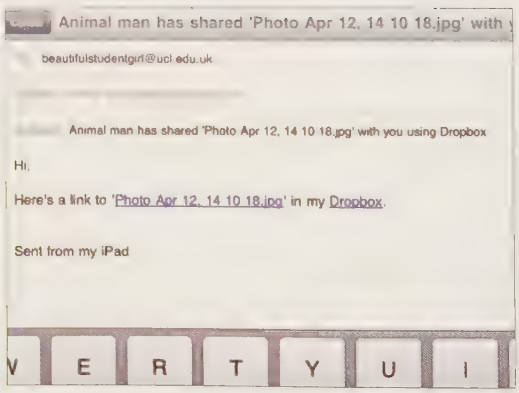
Working with files offline

What happens when you're offline? Simple. Open any file while online and click the star icon to declare it a Favorite file. These are then stored on your iPad.

1 Sharing files with Dropbox is easy. First, select the image, document or other asset you wish to share from within your collection of files using the right-hand menu. You can share anything you have inside your Dropbox.



2 With your asset selected, simply tap on the linked chain icon at the top-right of the screen, to the left of the 'favorites' (the star icon). This offers three options: 'Email Link', 'Copy Link to Clipboard' and 'Copy Image to Clipboard'.


Animal man has shared 'Photo Apr 12, 14 10 18.jpg' with
beautifulstudentgirl@ucl.edu.uk
Animal man has shared 'Photo Apr 12, 14 10 18.jpg' with you using Dropbox
Hi,
Here's a link to 'Photo Apr 12, 14 10 18.jpg' in my Dropbox.
Sent from my iPad
E
R
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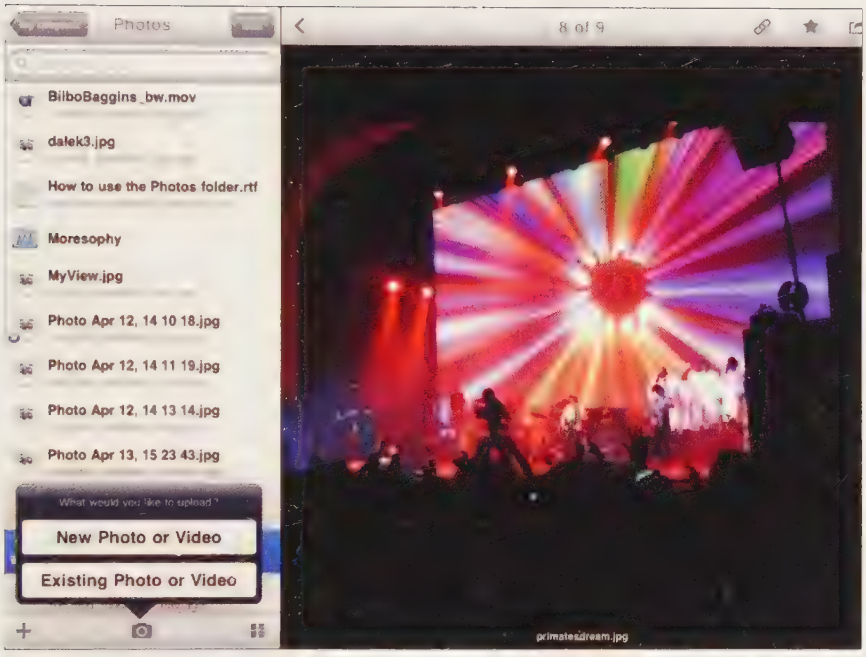
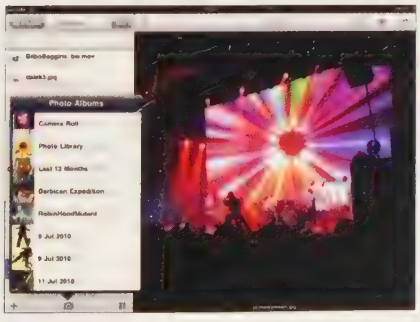
I

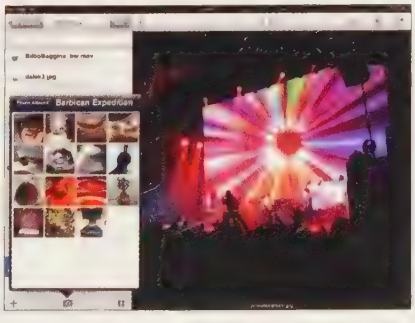
3 If you select Email Link, an email message opens within Dropbox and you can send it to the person you wish to share the file with a link giving them access to your file – though they will need to register for Dropbox.



4 You can upload images or video from your iPad to your Dropbox account, making it a useful place to store your photo collection. Tap on the camera icon (bottom-left) and you can capture a new image/video from within Dropbox, or upload an existing one from your photo gallery.



5 Select Existing Photo or Video and you'll be in your Photo Albums browser, where you can choose among all the assets you have on your iPad, including any new images or videos you may have created using an iPad 2.



6 Tap the asset you want to upload from within the list of folders inside the image or video items browser. Tap the selected item and a small progress bar appears. The asset quickly appears inside the Dropbox folder you are currently in.

WANT MORE?

SugarSync

SugarSync is a fee-based alternative to Dropbox, with the capacity to upload and sync through email and choose which folder(s) on your computer to auto-sync

Catch up on your favourite shows with BBC iPlayer

▶ It took a while to arrive on the iOS platform, but when the BBC iPlayer app appeared in the App Store, it proved to have been worth the wait.

The iPlayer app gives you the chance to catch up on your favourite TV shows on your iPad 2 – and it even lets you watch live BBC TV channels and listen to live radio stations on your iPad. All you need is an Internet connection and the free-to-download app.

BBC iPlayer lacks some functions from the desktop app, such as the ability to sign in and download shows for offline viewing – but these are more than made up for by the app's ease of use, wide content selection, and great looks.

VITAL INFO

Here we show you how to watch and listen to BBC TV and radio shows on iPlayer and add programmes to your Favourites list so that you're informed when new episodes are added.

What you need
iPad 2
BBC iPlayer app (free from the App Store)

Time required
As much time as it takes to watch your favourite shows

Favourites

When you start using the app, you can add programmes to your Favourites list. The app will then alert you when new episodes come online.

Browsing options

You can browse shows using these buttons at the top of the interface. The 'For You' button contains recommendations based on your favourites.

TV choices

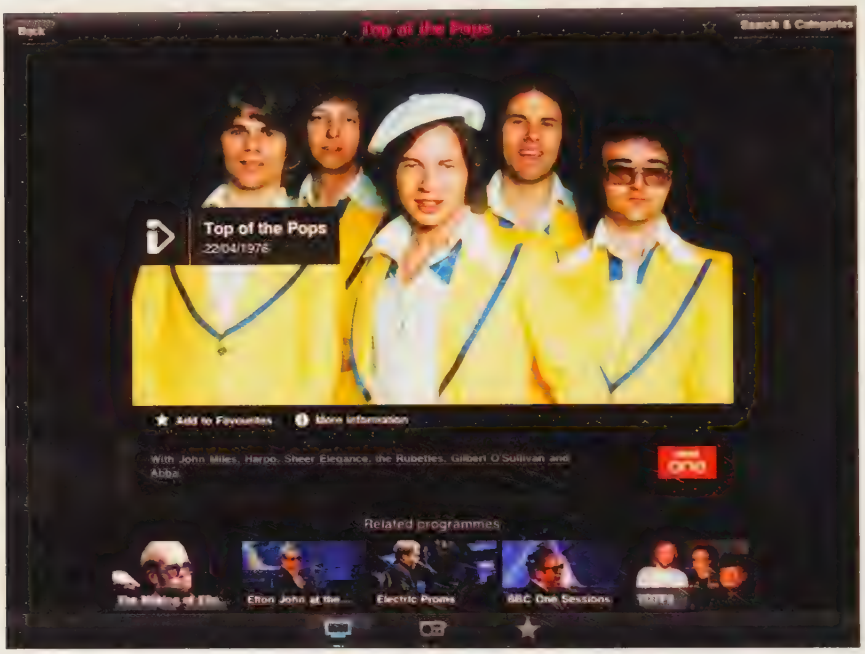
Fire up the BBC iPlayer app and you'll see this home screen. You can tap any preview image to watch the programme it relates to straight away.

Favourites bar

Tap this star to bring up a quick preview of your favourites. You can then watch any of them with a single tap.

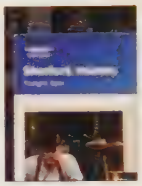
TV and radio on demand

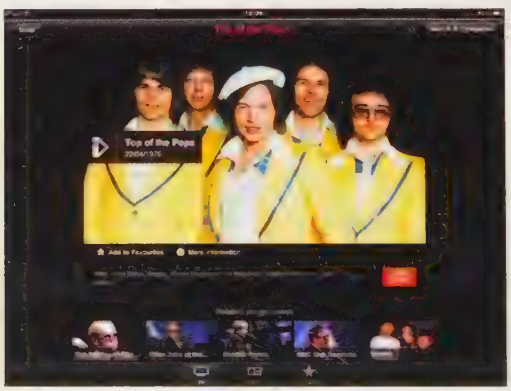
iPlayer gives you a wealth of BBC entertainment on your iPad 2. Its tailored recommendations also make it easy to find new TV or programmes. Here's a quick rundown of what the app does



1 Tap a TV show from the homescreen to see a brief summary, and tap the picture again to start streaming the content straight to your iPad. Remember, you must be connected to the Internet to use BBC iPlayer.

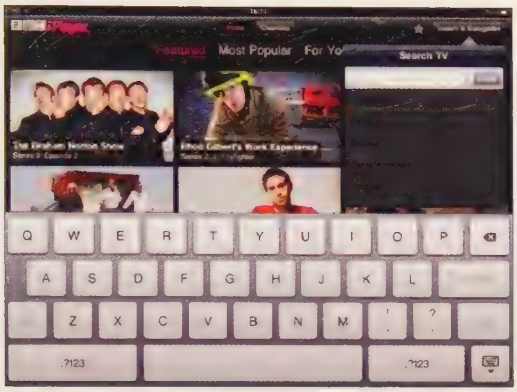
WANT MORE?
Sky+ app



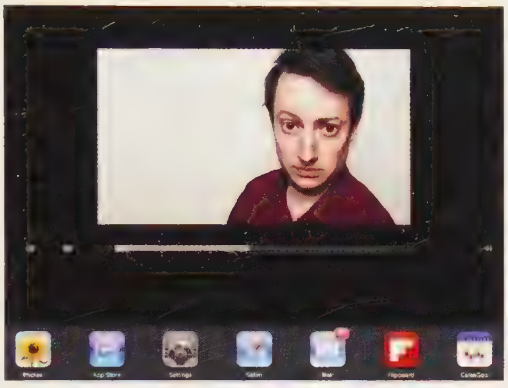


2 While you watch, you can tap the picture to bring up controls. You've got standard play and pause, and you can also toggle the 'HQ' (high-quality) button on and off – useful if you're on a slow Internet connection.

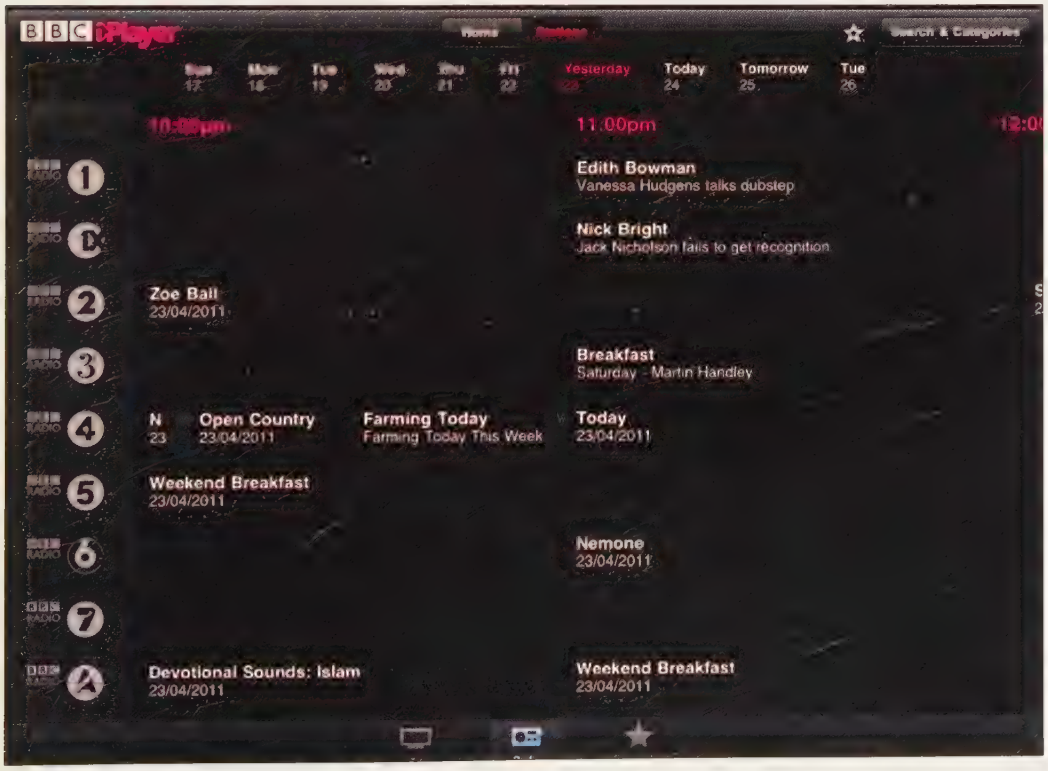
3 Add programmes to your Favourites by tapping the 'Favourites' button on the Synopsis page, or when you've finished watching. To view your Favourites, you can tap the star button in the top-right. Tap a show to jump to it.



4 If you want to search for a programme, tap 'Search & Categories'. This lets you search by genre, or type in a search term to see what iPlayer can offer you. There is a huge amount of TV and radio content available to browse and play.



5 Tap 'Radio' at the bottom of the screen to search and browse radio shows from the last week. The iPlayer app allows you to multitask – so you can skip to other apps and play radio shows in the background.



6 To watch live TV or listen to live radio, tap 'Channels' at the top with either 'TV' or 'Radio' selected at the bottom. You will then see the day's TV or radio listings, and you will be able to stream whatever is on right now.

WANT MORE?
BBC News

The BBC News app (£free) streams the BBC News channel and also offers social networking features and text alerts to help you keep up to date on the latest breaking news stories.

Use your iPad 2 as a second screen

▶ With many of us multi-tasking these days both at home and in the office, it's often useful to have some extra screen area at your disposal. Thanks to the Air Display app, you can transform your iPad 2 into this all-important extra screen space.

Configuring your iPad to work as a second display for your desktop computer or laptop takes a matter of minutes. The great thing is that you can control standard Mac windows and dialog boxes using the touchscreen, and the app is perfect for anyone who has a busy life – or just a tendency to have lots of active windows and to find that their workspace is cramped and cluttered when working with only one screen.

Air Display is fine for day-to-day tasks, although it might struggle with more challenging work such as handling video footage – but it's still an invaluable desktop aide.

VITAL INFO

This tutorial will take you through the steps involved in turning your iPad into a wireless display that allows you to expand your normal computer desktop onto a secondary working area. All you need is the app, iOS 3.2 or later iPad, another computer and wireless connectivity.

What you need
Your iPad 2
Air Display app (£5.99)
Air Display desktop app (free)

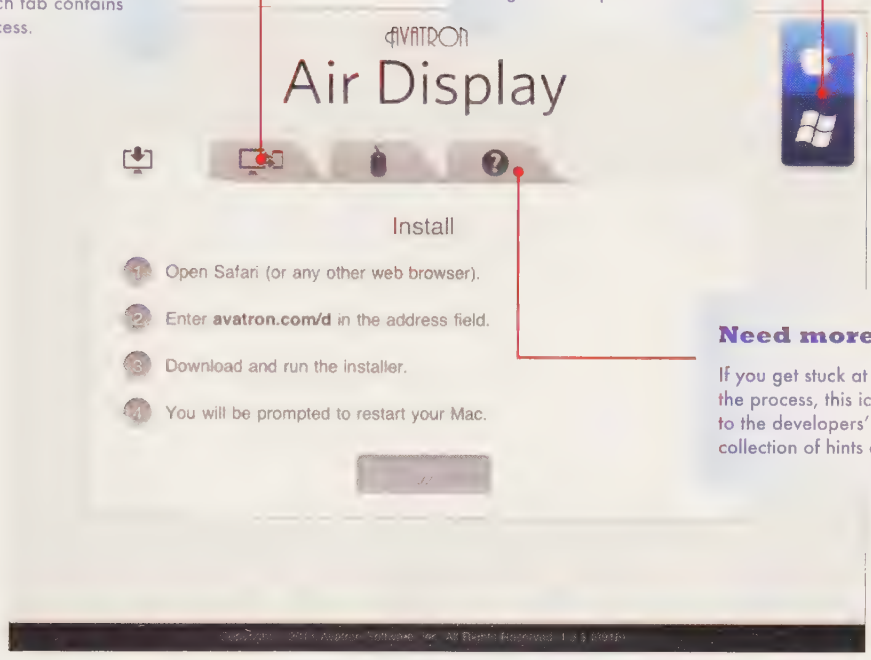
Time required
15 minutes

The set-up process

Air Display is quick to configure on your iPad, thanks to the clear interface that appears once downloaded. Each tab contains a step in the process.

Windows or Mac

Toggle between the set-up process for Mac or PC set-up using these simple icons.


AVATRON
Air Display
Install
1 Open Safari (or any other web browser).
2 Enter avatron.com/d in the address field.
3 Download and run the installer.
4 You will be prompted to restart your Mac.

Need more info?

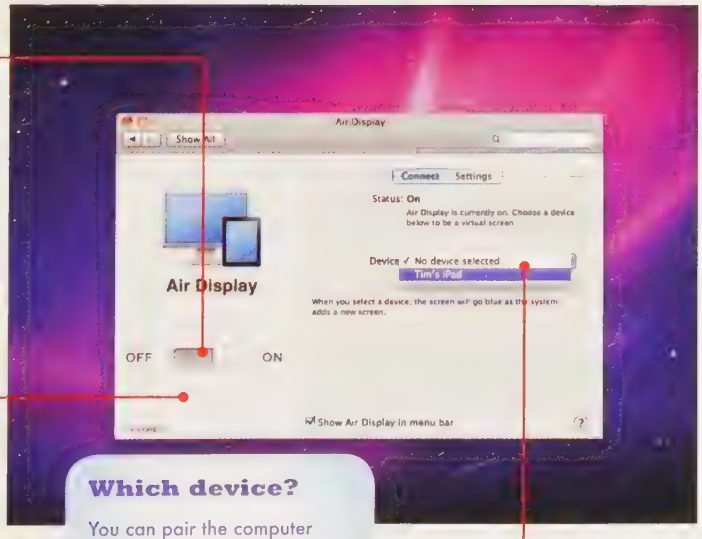
If you get stuck at any point in the process, this icon takes you to the developers' website for a collection of hints and tips.

Turn on

To get Air Display to work, you have to download an app from the Avatron website (http://avatron.com/d). This installs an app that lets you turn the Air Display function on and off.

System Preferences

Alternatively, open this window through 'System Preferences', which will then allow you to fine-tune any of Air Display's settings.


Air Display
Show All
Connect
Settings
Status: On
Air Display is currently on. Choose a device below to be a virtual screen
Device ✓ No device selected
Tim's iPad
When you select a device, the screen will go blue as the system adds a new screen.
Air Display
OFF
ON
Show Air Display in menu bar

Which device?

You can pair the computer with your iPad simply by selecting it with the device that appear in the menu. Add more devices if you need to.

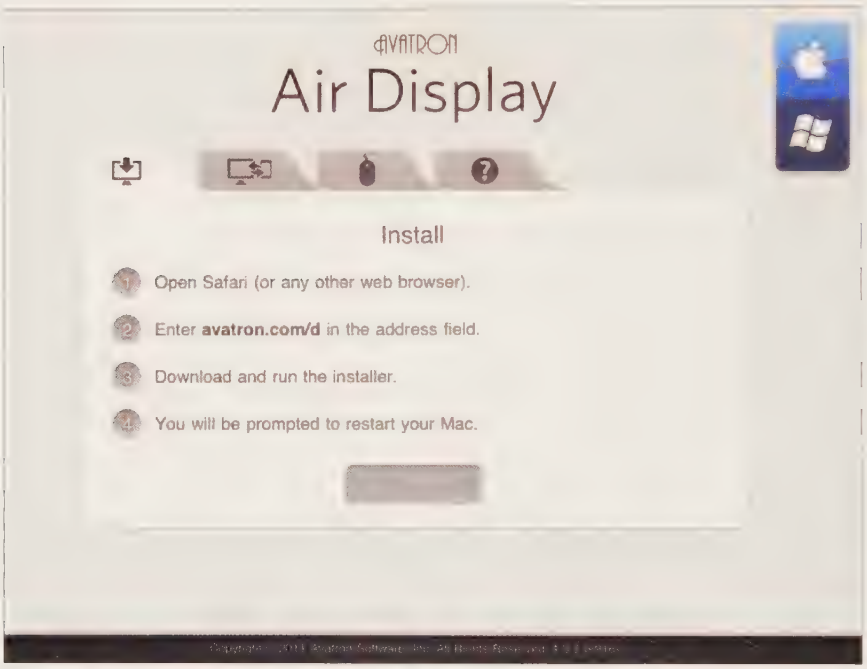
EXPERT TIP

Air Display is happy working in either landscape or portrait configurations. Simply rotate your iPad as normal and the working area will respond accordingly. It works with both Mac and Windows computers for the ultimate in flexibility.

Step-by-step guide »»

Be more productive

By expanding your working area, Air Display allows you to get much more done. It gives you the ability to turn your iPad 2 into a secondary monitor that will run happily alongside your normal desktop Mac or PC. And configuration couldn't be simpler – here's how it's done...

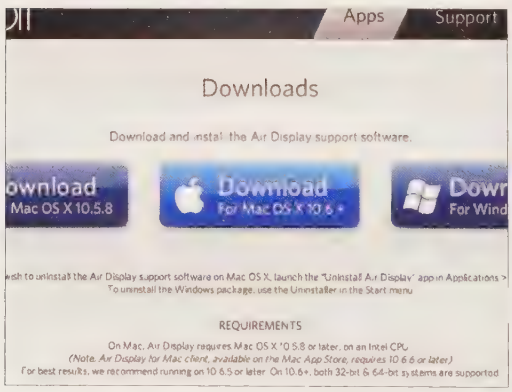

AVATRON
Air Display
Install
1 Open Safari (or any other web browser).
2 Enter avatron.com/d in the address field.
3 Download and run the installer.
4 You will be prompted to restart your Mac.

NEED TO KNOW
Resolutions

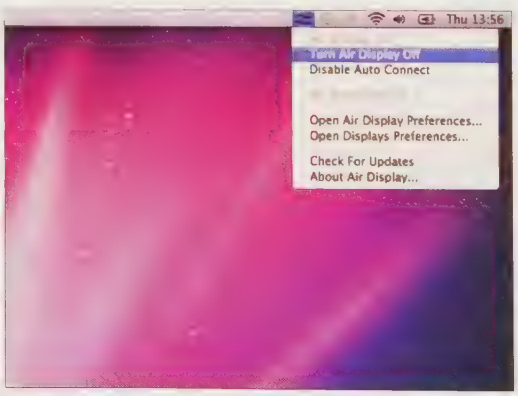
Resolutions
800 × 500
800 × 600
800 × 600 (stretched)
1024 × 640
1024 × 768

Air Display allows you to select different resolutions for the screen that you're using by dipping into the 'Display' preferences. Access this from the top right-hand menu next to Time Machine.

1 After downloading Air Display to your iPad 2, follow the straightforward instructions to configure the software. You'll see this four-tab dialog window. Go to the web address avatron.com/d to download the software for the machine you're pairing it with.



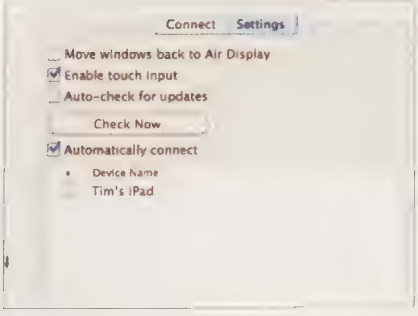
2 Click the version you wish to install and follow the instructions. This will require you to restart your machine. Once installed, an icon will appear in the top-right of the screen if you are on a Mac or in the bottom-right on a PC.



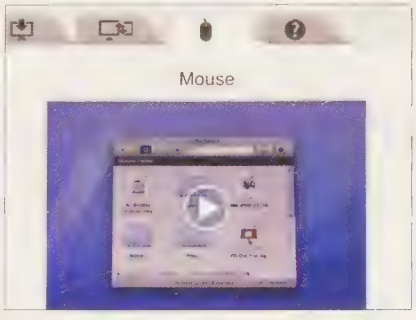
3 Air Display can be controlled using the menu that will appear at the top right of your computer screen. This allows you to switch it on or off on the computer that you installed it on, and access the 'Preferences' area for pairing to your iPad.

Air Display
Show All
Connect
Settings
Status: On
Air Display is currently on. Choose a device below to be a virtual screen.
Air Display
Device: ✓ No device selected
When you select a device, the screen will go blue as the system adds a new screen.
OFF
ON
Show Air Display in menu bar

4 The 'Preferences' window allows you to select the iPad 2 from this drop-down list. Be sure that you have WiFi enabled and that both devices are using the same connection.



5 Click on the 'Settings' tab in the dialog box in order to fine-tune Air Display's settings, for example by choosing to enable touch input, or by automatically enabling Air Display when you connect your iPad to your computer.



6 Find out how to use the dual screen controls and get handy tips for better performance by watching the 'Mouse' video in the Air Display app on your iPad.

WANT MORE?
Print Sharing

Print sharing apps allow you to access, edit and print digital documents across a variety of devices and platforms, including different operating systems. One good example, the imaginatively titled Print Sharing (£1.79) comes from the same developer as Air Display.

App developer insight

Find out what developers think of the iPad 2, and the opportunities the new hardware presents for app creation…

A clever, enthusiastic app-development community is the trump card for Apple's iOS platform. When the company announced that third parties would be able to build apps for the iPhone back in 2008, thousands of developers – from bedroom programmers to big businesses – got on board. They smelt a few quid, and could see that Apple was onto something with its distribution model and hardware. The iPad gave devs a new angle, and with Mark II, there's more to play with.

The iPad 2's new hardware presents developers with a number of new features and opportunities. "I've come across more and more people who are trying to use their iPad as a computer replacement, rather than for just casual browsing, emails and gaming," says Jamie Brown, general manager at cloud storage and streaming app company Livedrive. "I think that there will be a focus on the more serious applications over the next year or so – productivity, Office and remote working apps."

And Ed Lea, CTO at app agency Grapple Mobile, says apps will get more creative. "Critics initially considered the iPad to be a content consumption device, but we're starting to see excellent content creation apps emerging," he says. "The exciting challenge for developers is to find new and natural ways to interact with the device."

One thing's for sure – developers see Apple's iPad 2 as the device to back, at least for now. "It's impossible to cater for an entire market, so Apple's share will decline," says Matt Brooke-Smith, director at mobile agency Future Workshops. "However, Apple will remain the market leader, at least for the short to mid term – their lead is too much and their re-investment into innovation too unwavering to be matched."

Sina Khelil, CEO of TV app company Vualla, agrees. "It is going to be very difficult for a competitor to leapfrog Apple at this point," he says. "They don't seem to ever let-off the accelerator."

iPad 2: the dev verdict

We asked five top app developers what they think of the iPad 2 hardware update, and how they think it'll move app development forward in the future. Here's Here's some of their nuggets of wisdom and opinion...

Ed Lea

CTO, Grapple Mobile
www.grapplemobile.com

"For developers the strength of iOS has always been the quality of Apple's developer tools and SDK, the distribution channel for apps through iTunes and the ability to efficiently commercialise them.

"At the moment it's the only viable game in town. However, RIM's Playbook and HP's TouchPad are both great devices that could well start to erode Apple's dominance. To keep the tablet space interesting and innovative there needs to be competition."

Sina Khelil

CEO, Vualla
www.vualla.com

"The iPad 2 is a nice evolution from the original iPad but it seems like this is what the original iPad should have been. This is easy to say from the outside but the lack of a solid processor and camera in the original iPad severely hampered the development efforts on some high-end features.

"The most exciting thing is the stability of the OS. You do not have to deal with the fragmentation of the OS ... you know that if you write it once, it will run on all the iOS devices."

Jamie Brown

General manage, Livedrive
www.livedrive.com

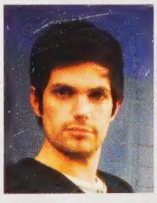
"The iPad 2 is one of these incremental releases that looks particularly unspectacular on paper – and I wasn't impressed at all until I actually got my hands on one. As soon as you do though, it's almost impossible to go back to your old first generation iPad, which feels slow, clunky and impossibly bulky. I never really thought of my original iPad as laggy – everything seemed to happen quickly and responsively – but the iPad 2 is so fast that it really puts the old version to shame."

Ronen Bitan

Chief product officer, NDrive
www.ndrive.com

"Next year's apps will take real advantage of the big screen. We believe that less and less users are willing to use a stretched iPhone app and that users today are willing to pay more but get an app that really uses the big screen.

"What we love about iOS is the quality of the devices and platform. This unique combination of high end hardware which is well tuned by its OS makes our NDrive app run beautifully on iOS devices."



Matt Brooke-Smith

Director, Future Workshops
www.futureworkshops.com

"The iPad 2 is mostly about consolidation of Apple's lead in the tablet market. I believe real innovations (retina display, RFID for eWallets etc) are being held back for a future release.

"As developers become more comfortable with the platform you will see more imaginative and innovation user experience. We have begun to see this with the likes of Twitter for iPad – using a multi column layout – and Reeder, which uses controls that are reachable with your thumbs.

Midas touch

It's hard to fault Apple's control freakery when it creates products as good as this...

Having bought an iPad 2 and read through this book, it might surprise you to hear that there are some people out there who hate Apple and its iPad and everything it stands for. The device's ease of use, superb App Store, and sleek design are the very things that make the doubters' blood boil.

Apple's mothering ways make Android fans mad, but most iPad 2 users will be happy that it works

It's this tension that makes the mobile world the most fascinating tech industry of the moment.

In five years time, the space could look very different – although many tech analysts are predicting Apple's iPad has the area sewn up until 2015, at least in terms of device sales. Apple's iPad is blazing a trail, but everybody wants to get involved.

Google's Android operating system is mounting the strongest challenge, and the difference between each company's approach is stark. Apple's device and software ecosystem is closed. You can't upgrade the iPad and you can't install software on it unless it's been approved by Apple for sale on the App Store. Oh, and you certainly can't license the software for use in third-party devices.

Google's approach is the opposite. It's created the operating system, and any developer can make software for it. The Android OS will work in hundreds of devices.

Apple's approach to video chat is a classic example of this tension. Mobile video has been around for years, but with FaceTime, Apple has decided certain things for us. First, video chat is too expensive, so FaceTime only works over WiFi, which is free. Second, compatibility is a nightmare, so FaceTime only works between Apple devices.

This kind of mothering makes Android fans mad, but most iPad 2 users will be happy that it works.

It's easy to say: "Time will tell which approach wins in the end." We're only at the start. And, despite Android's bluster about openness, Apple has ensured it is very much the company to beat when it comes to creating devices that delight the people who use them.

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Simple steps to getting the best out of your iPad 2

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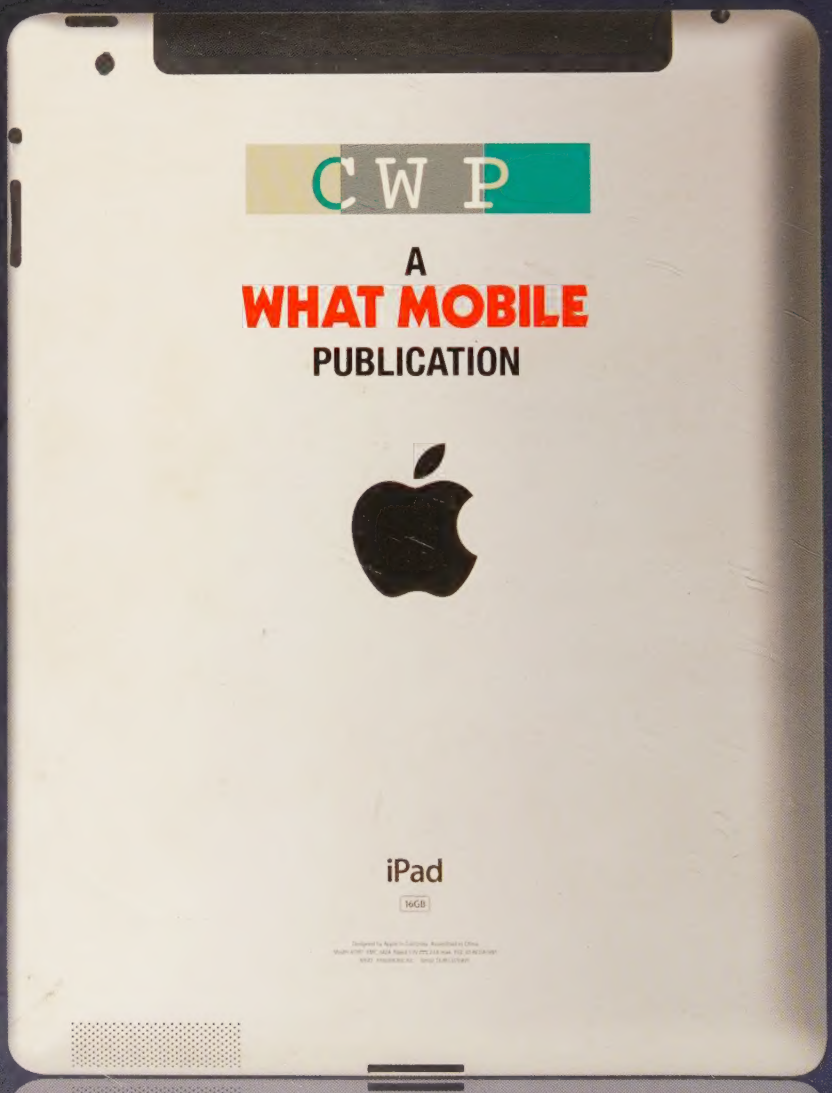

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